California High-Speed Train Project



Request for Proposal for Design-Build Services

RFP No.: HSR 11-16
Geotechnical Data Report
Clinton Ave to East American Ave

Appendix C
Cone Penetration Test Records



Appendix C Cone Penetration Test Records

Table C-1
Summary of CPT Locations, Depths, and In Situ Testing

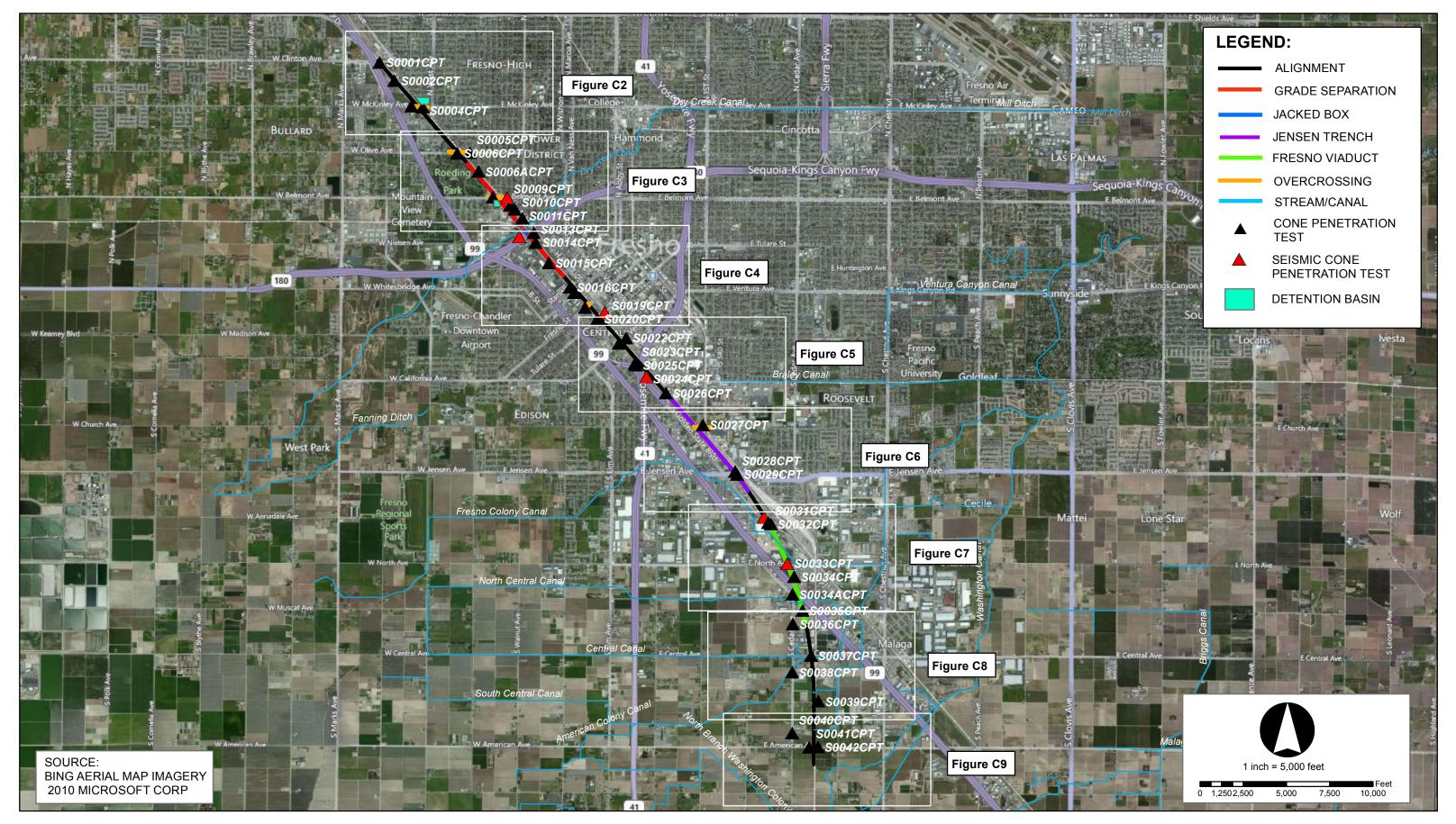
CPT ID	Elevation (NAVD88)	Northing (NAD83)	Easting (NAD83)	Hand-Auger/Pre-Drill Depths	Measured Depth to	Total Depth	In Situ Testing	
	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	SCPT ^[1]	PPDT ^[2]
S0001CPT	2,165,095	6,316,493	296.60	0 to 5	-	80.2		✓
S0002CPT	2,164,037	6,317,351	293.70	0 to 5; 6 to 9	-	50.0		
S0003CPT	2,162,577	6,318,313	287.50	0 to 5	-	80.2		
S0004CPT	2,162,522	6,318,980	289.20	0 to 4.5	-	80.7		
S0005CPT	2,159,881	6,321,692	292.50	0 to 5	-	80.0		✓
S0006CPT	2,159,855	6,320,967	295.10	0 to 15	-	80.1		✓
S0006ACPT	2,158,797	6,322,193	290.10	0 to 5	-	52.5		
S0007CPT	2,157,330	6,323,012	287.10	0 to 5	-	76.4		
S0008CPT	2,156,854	6,324,017	285.30	0 to 5.5; 29 to 36	-	100.2		✓
S0009CPT	2,157,307	6,323,848	286.80	0 to 4.5	-	105.8	✓	✓
S0010CPT	2,156,609	6,324,306	283.40	0 to 4	-	59.2		
S0011CPT	2,156,092	6,324,747	284.40	0 to 6	-	66.6		
S0012CPT	2,155,038	6,324,548	288.90	0 to 4.5	-	102.7	✓	✓
S0013CPT	2,155,267	6,325,407	285.10	0 to 4.5; 9 to 11; 14 to 24	-	101.2		
S0014CPT	2,154,687	6,325,494	287.60	0 to 5	-	52.2		
S0015CPT	2,153,499	6,326,261	286.10	0 to 5	-	114.7		
S0016CPT	2,152,083	6,327,476	285.40	0 to 5	-	67.3		✓
S0017CPT	2,151,787	6,327,731	286.30	0 to 5	-	80.4		
S0018CPT	2,150,922	6,328,346	286.00	0 to 5	-	80.4		
S0019CPT	2,150,638	6,329,493	289.10	0 to 5	-	81.5	✓	
S0020CPT	2,150,349	6,329,144	289.00	0 to 5	-	80.1		
S0021CPT	2,148,902	6,330,415	292.60	0 to 5	-	80.4		
S0022CPT	2,149,159	6,330,712	293.00	0 to 5	-	80.1		✓
S0023CPT	2,165,095	6,316,493	285.00	0 to 5	94.5	150.6		✓
S0024CPT	2,164,037	6,317,351	284.70	0 to 5	95.0	103.8	✓	✓
S0025CPT	2,162,577	6,318,313	284.70	0 to 5	-	150.6		✓
S0026CPT	2,162,522	6,318,980	283.80	0 to 5	-	64.0		
S0027CPT	2,159,881	6,321,692	286.60	0 to 5	-	80.4		
S0028CPT	2,159,855	6,320,967	286.80	0 to 5	-	45.1		
S0029CPT	2,158,797	6,322,193	287.90	0 to 5	-	80.0		✓
S0030CPT	2,157,330	6,323,012	288.90	0 to 5	-	64.1	✓	
S0031CPT	2,156,854	6,324,017	289.30	0 to 5.5	-	150.4		✓
S0032CPT	2,157,307	6,323,848	290.10	0 to 4.5	-	90.7		✓
S0033CPT	2,156,609	6,324,306	290.50	0 to 15	-	75.1	✓	
S0034CPT	2,156,092	6,324,747	297.00	0 to 5	-	84.0		
S0034ACPT	2,155,038	6,324,548	303.70	0 to 5	-	95.1	✓	✓

Table C-1
Summary of CPT Locations, Depths, and In Situ Testing

CPT ID	Elevation (NAVD88)	Northing (NAD83)	Easting (NAD83)	Hand-Auger/Pre-Drill Depths	Measured Depth to	Total Depth	In Situ Testing	
	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	SCPT ^[1]	PPDT ^[2]
S0035CPT	2,155,267	6,325,407	289.20	0 to 5	61.0	100.2		✓
S0036CPT	2,154,687	6,325,494	288.00	0 to 5; 13 to 22	96.0	100.2		✓
S0037CPT	2,153,499	6,326,261	289.30	0 to 5	31.0	80.0		~
S0038CPT	2,152,083	6,327,476	287.30	0 to 5	-	50.2		
S0039CPT	2,151,787	6,327,731	290.40	0 to 5	-	50.3		
S0040CPT	2,150,922	6,328,346	289.20	0 to 5	-	55.6		
S0041CPT	2,150,638	6,329,493	293.10	0 to 5	60.9	80.2		✓
S0042CPT	2,150,349	6,329,144	291.50	0 to 5	66.0	80.0		

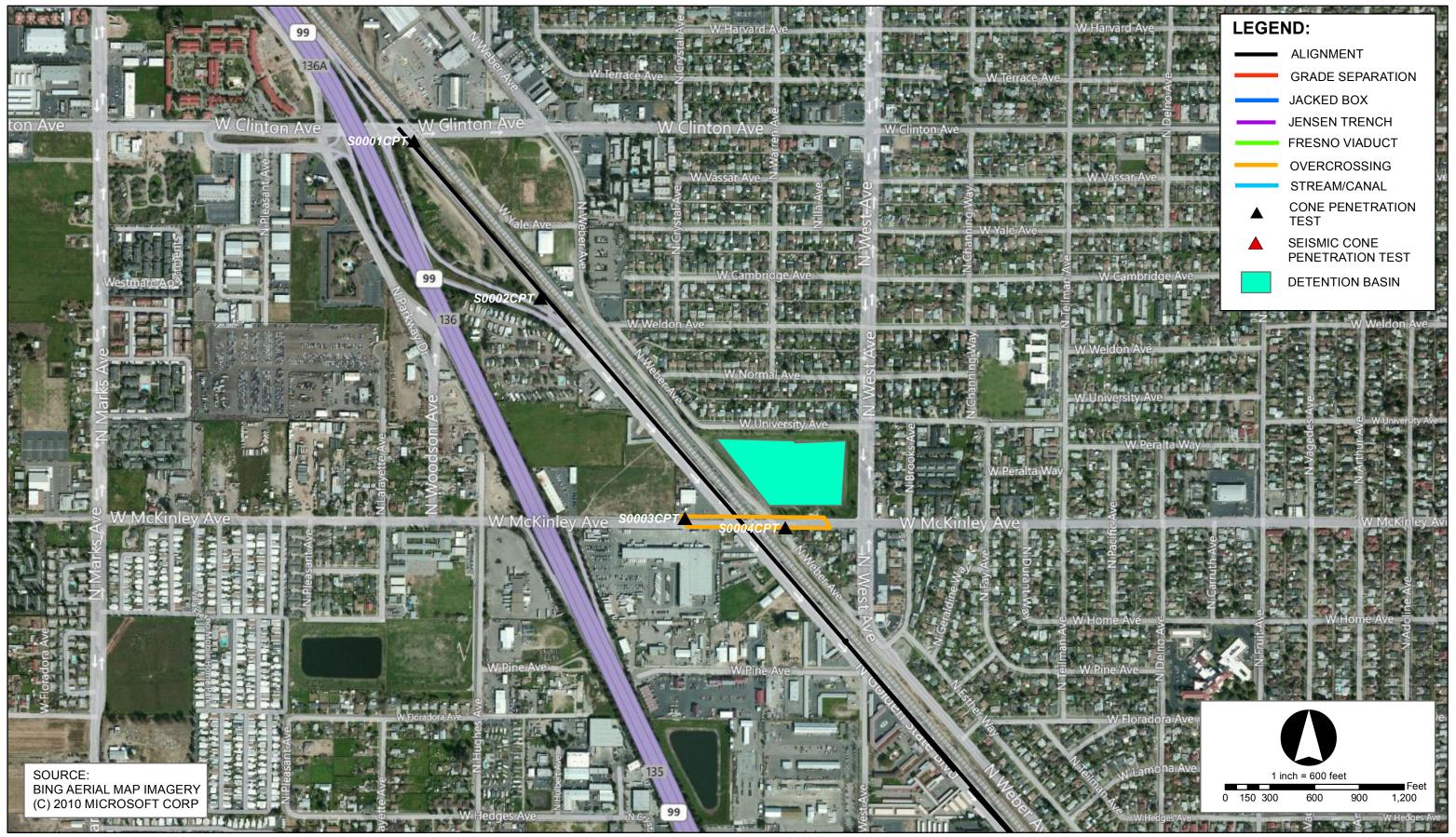
^[1] SCPT: seismic cone penetration test

^[2] PPDT: pore pressure dissipation test



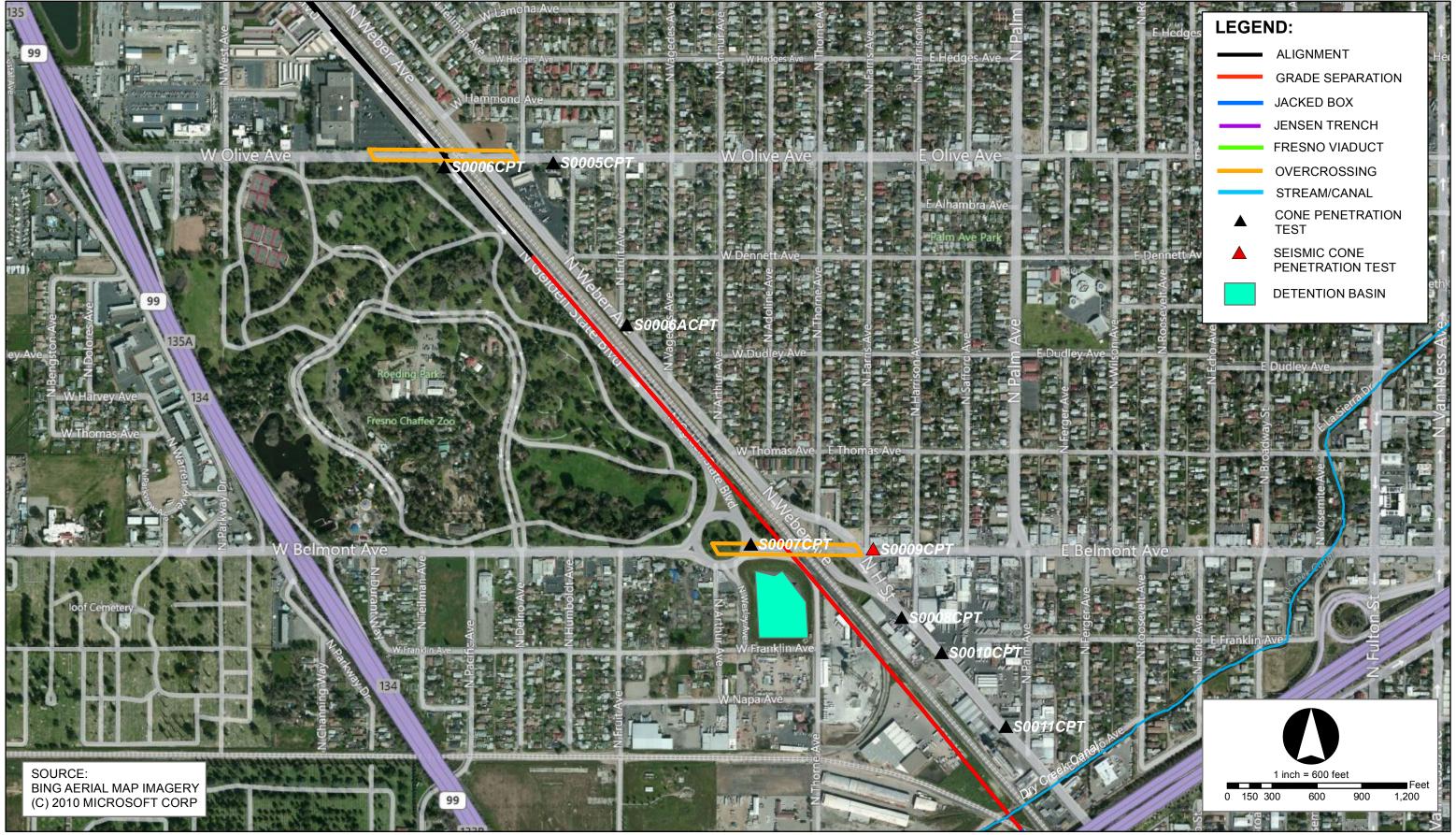






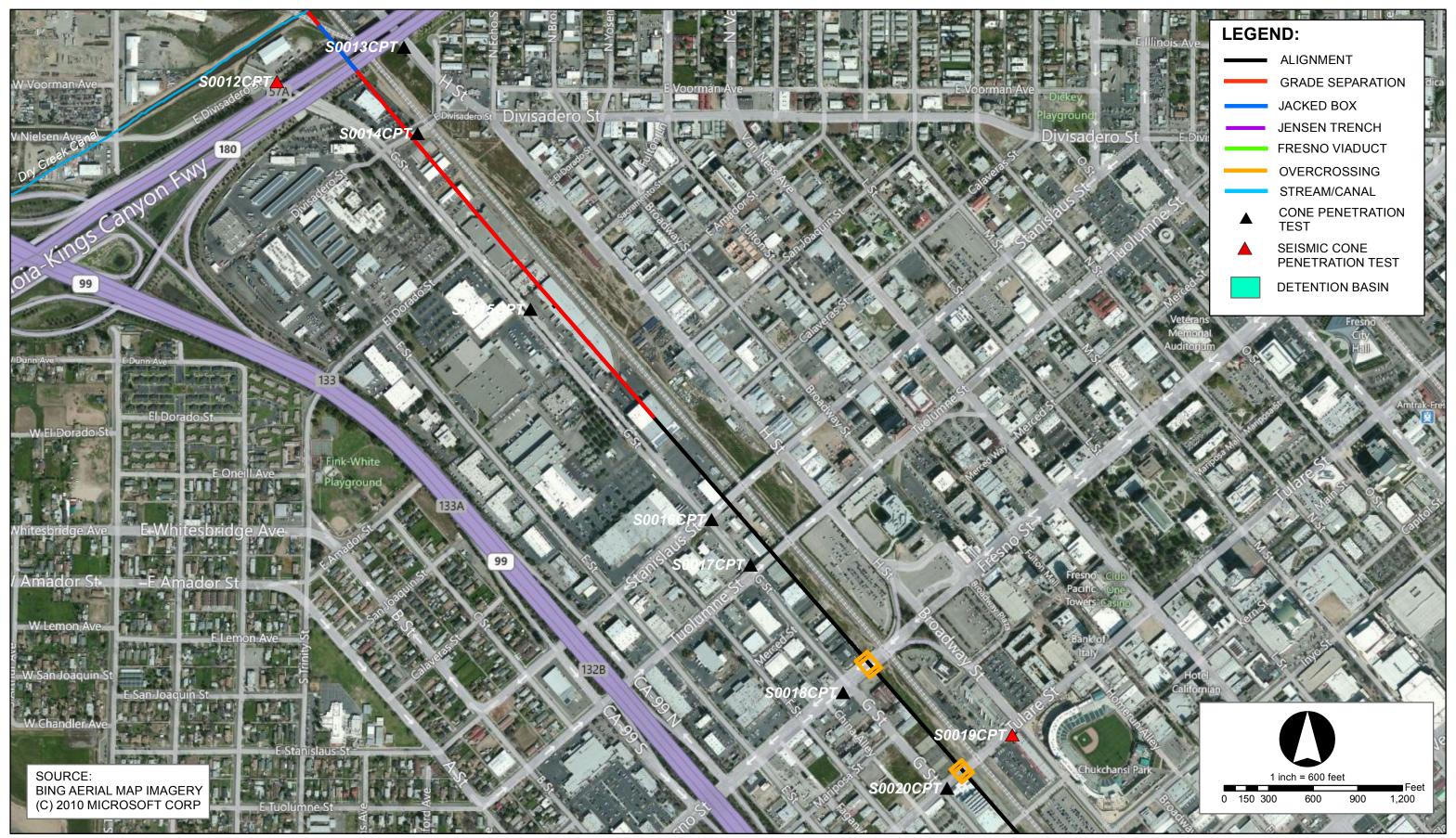






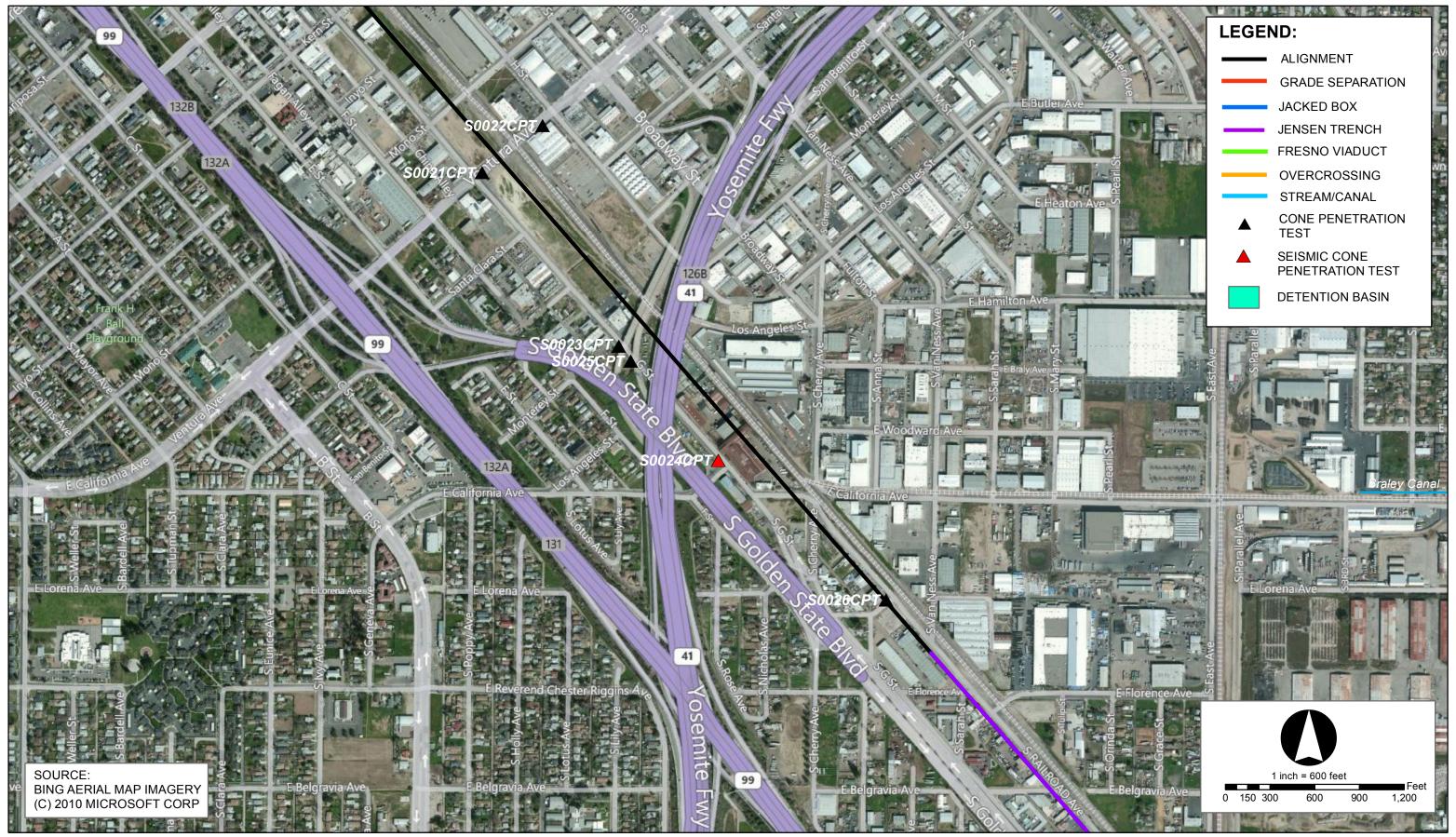






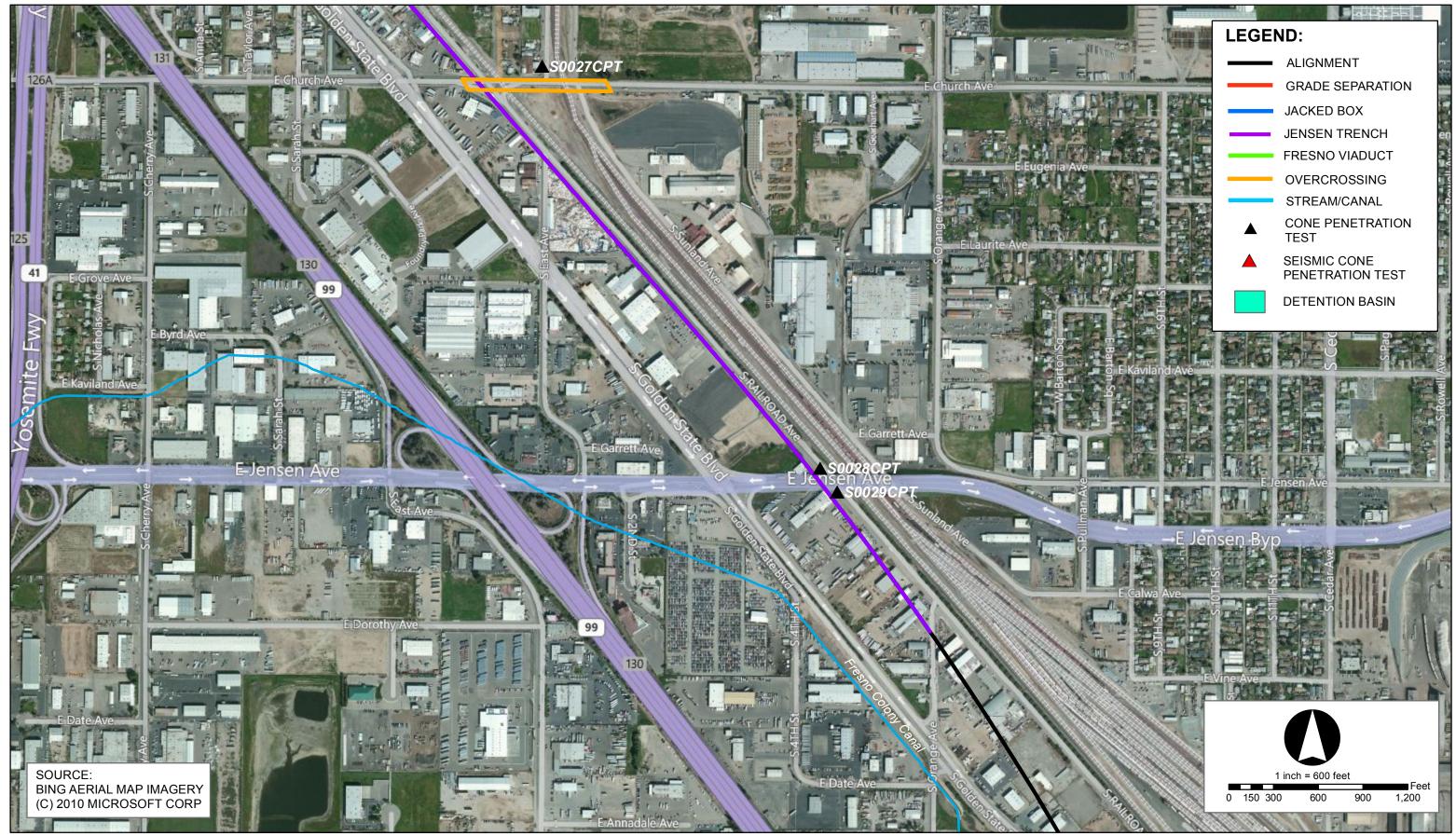






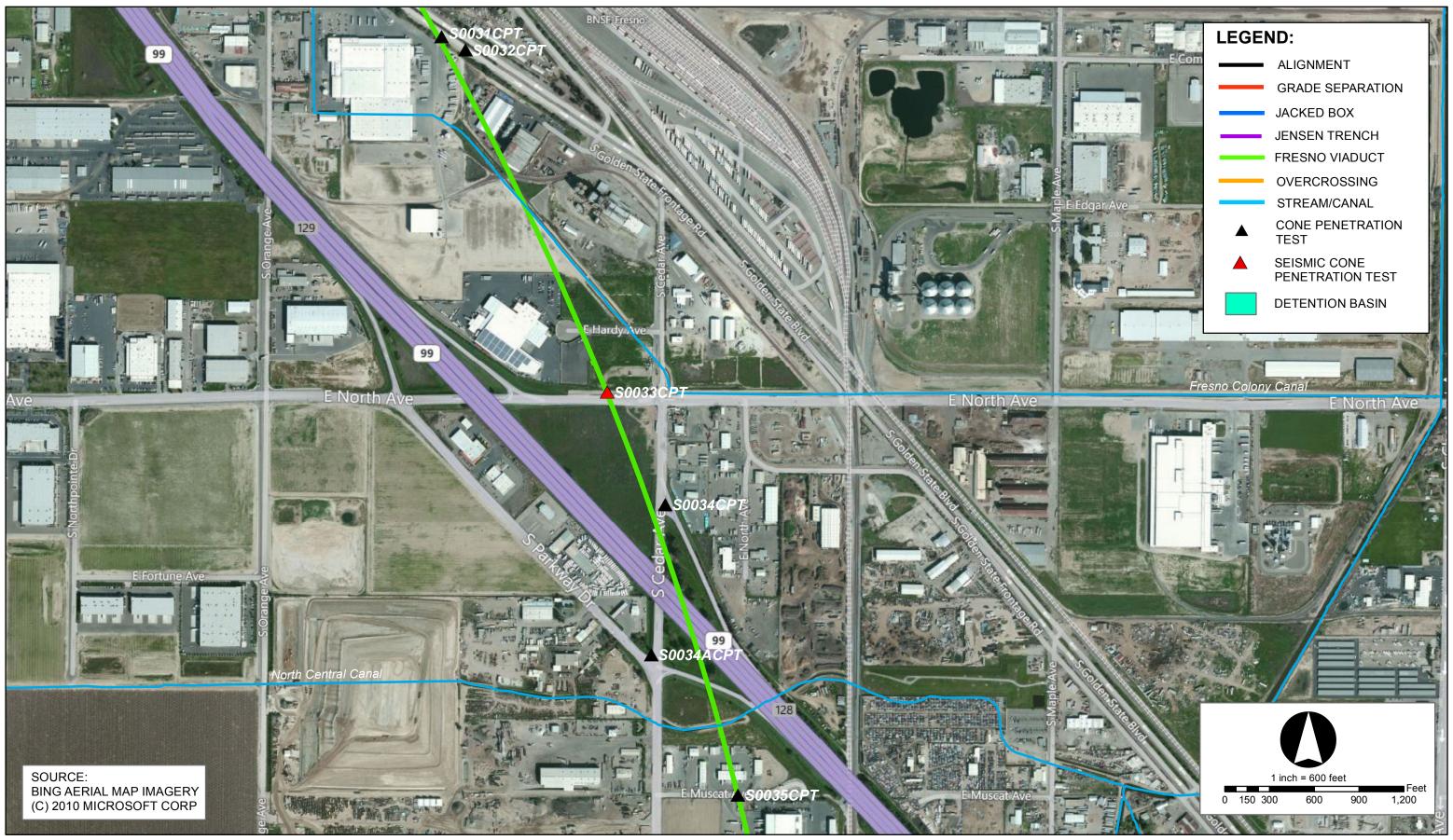






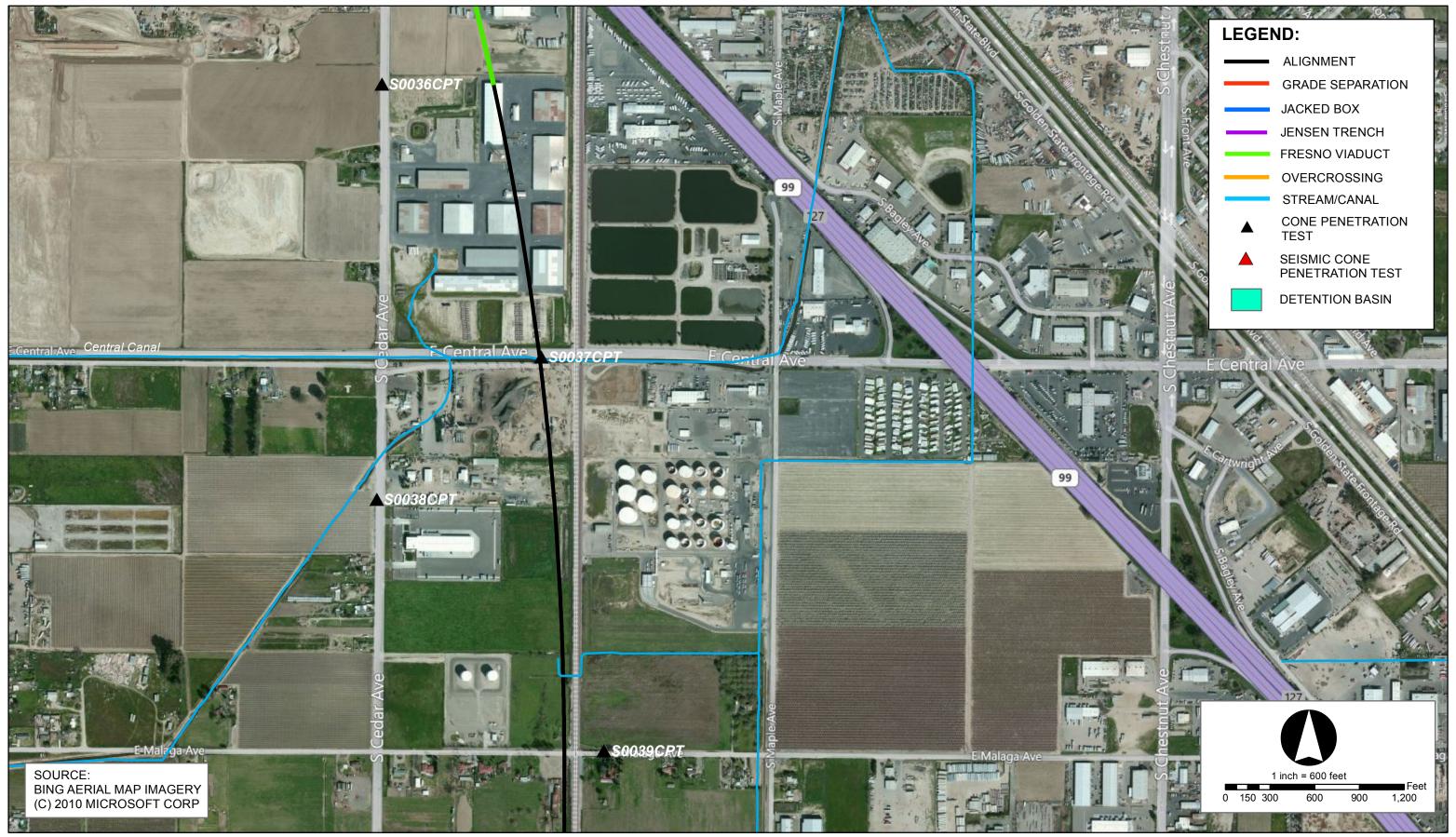






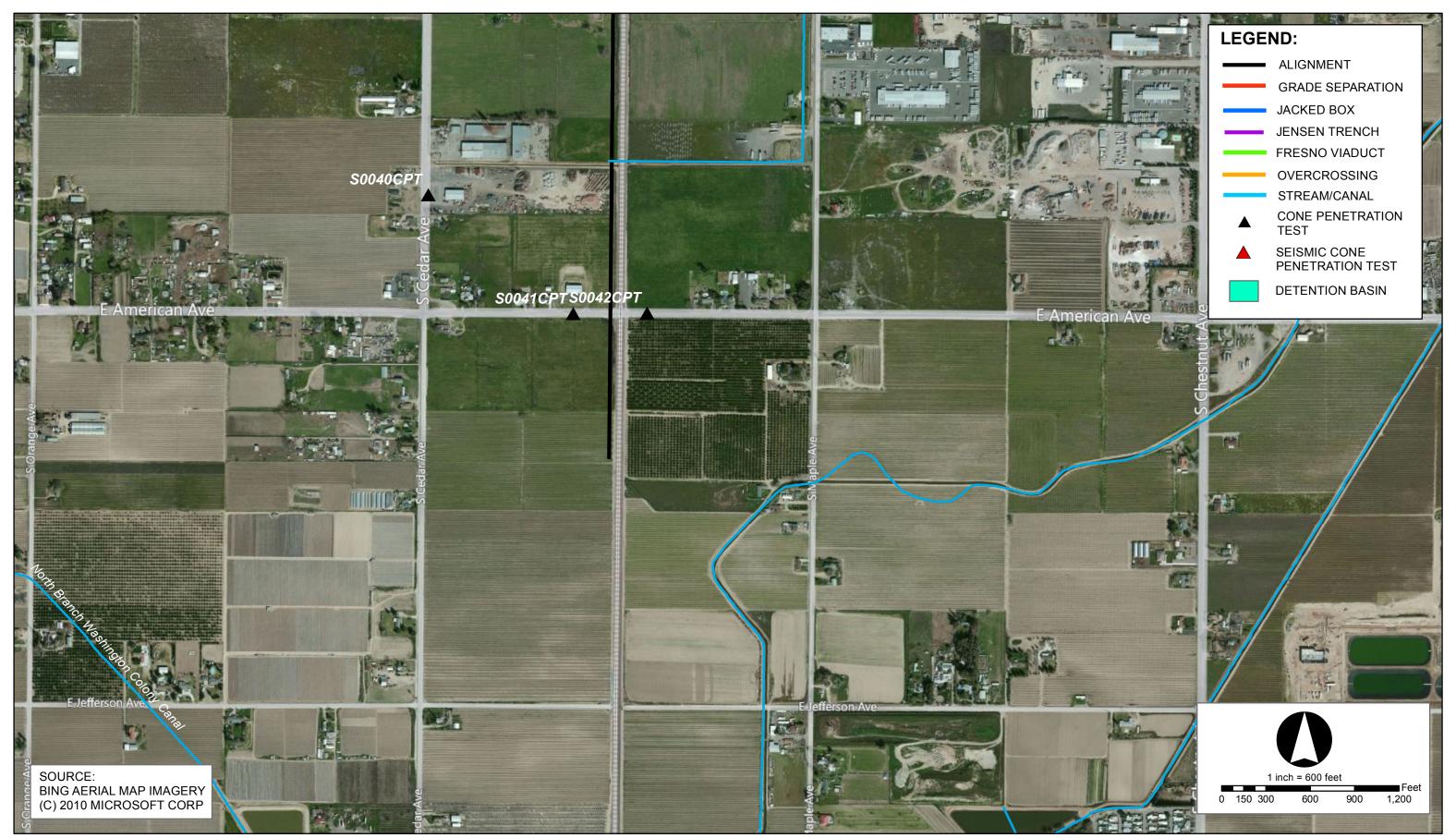






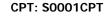












Location: Fresno, CA

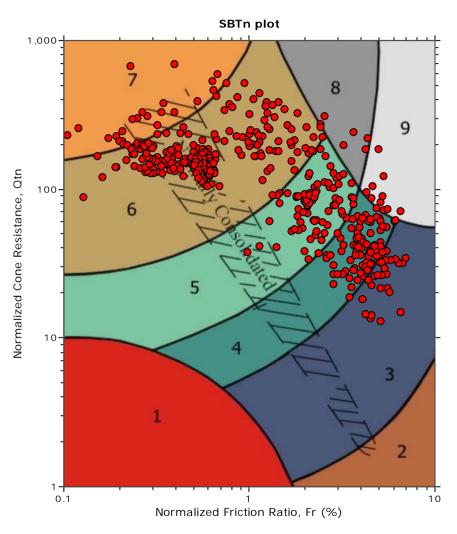
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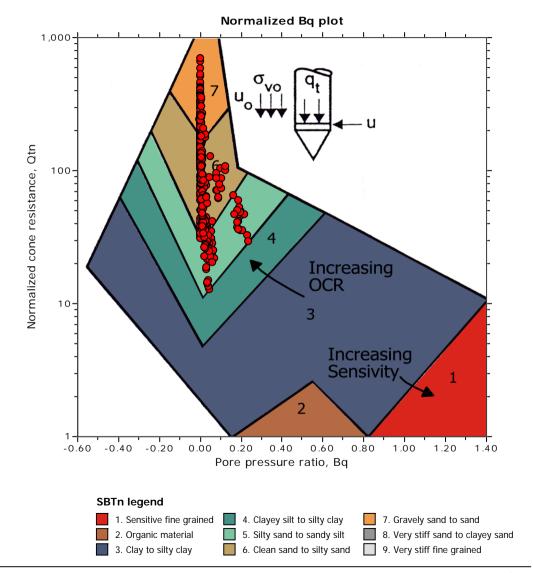
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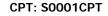
Cone Type: GDC-27

Cone Operator: T.Patterson

Project: California High-Speed Train







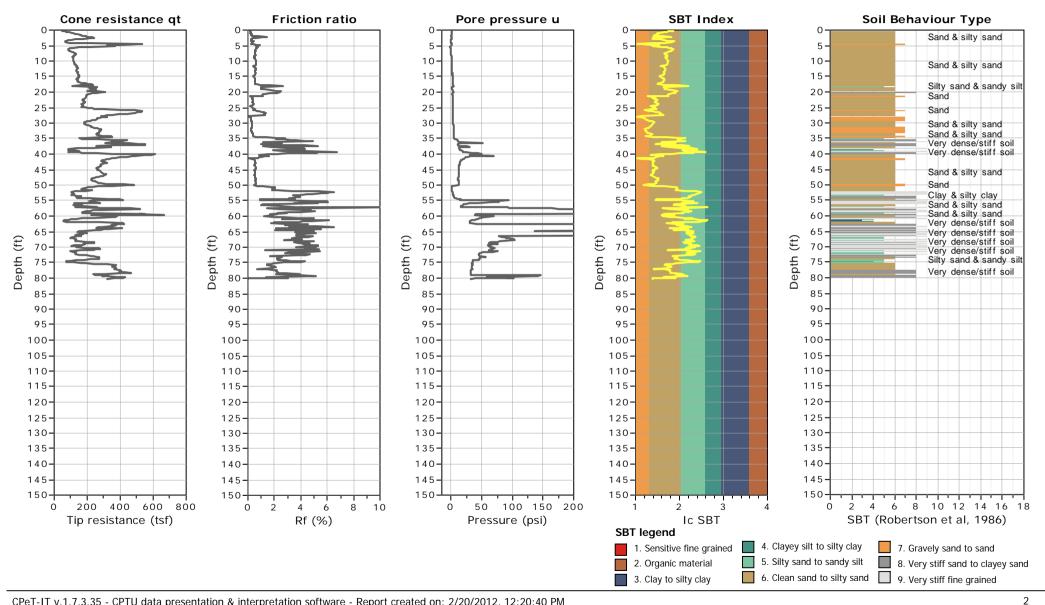
Total depth: 80.22 ft Surface Elevation: 296.62 ft

Coords: X:6316493.00, Y:2165094.75

Cone Type: GDC-27
Cone Operator: T.Patterson

Cor

Project: California High-Speed Train Location: Fresno, CA





Total depth: 80.22 ft

Surface Elevation: 296.62 ft

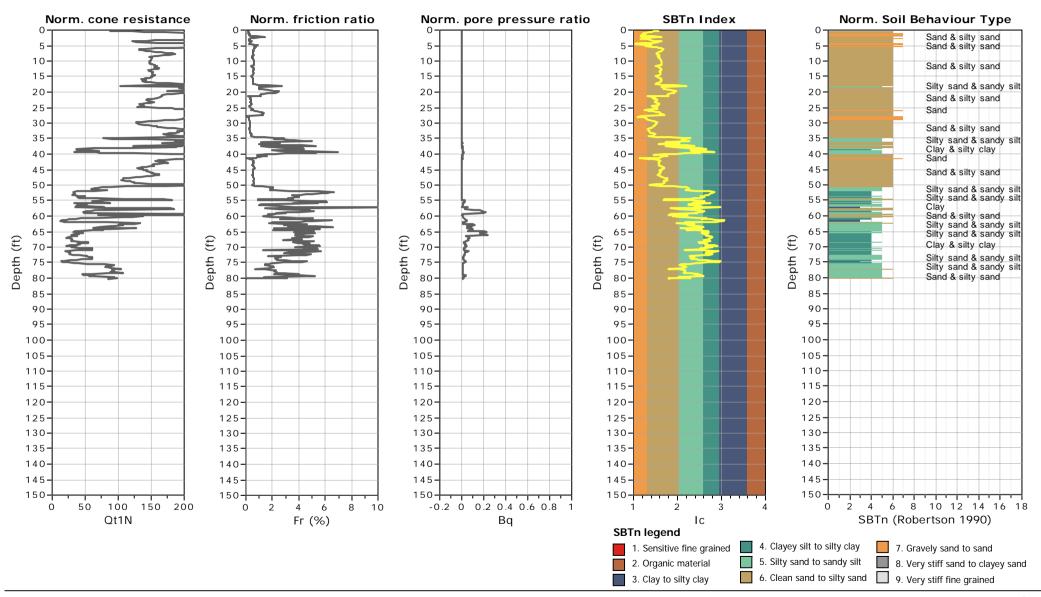
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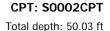
Cone Type: GDC-27
Cone Operator: T.Patterson

GEOLOGISMIKI Geotechnical Software

Project: California High-Speed Train

Location: Fresno, CA





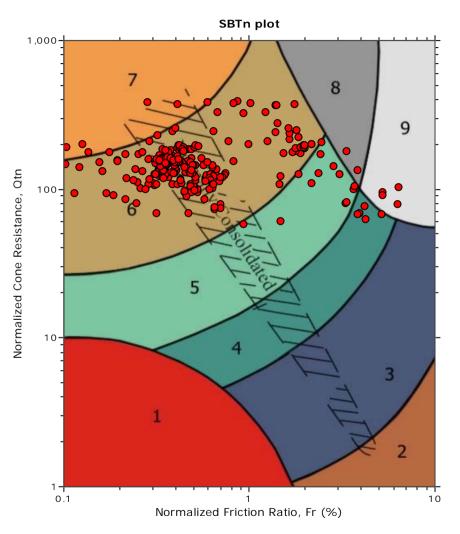
Surface Elevation: 293.72 ft

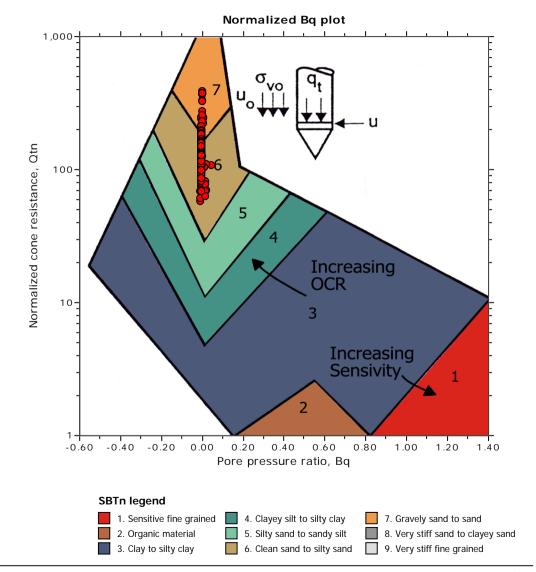
Coords: X:6317351.00, Y:2164037.00

Cone Type: GDC-51
Cone Operator: A.Sancen

Project: California High-Speed Train

Location: Fresno, CA







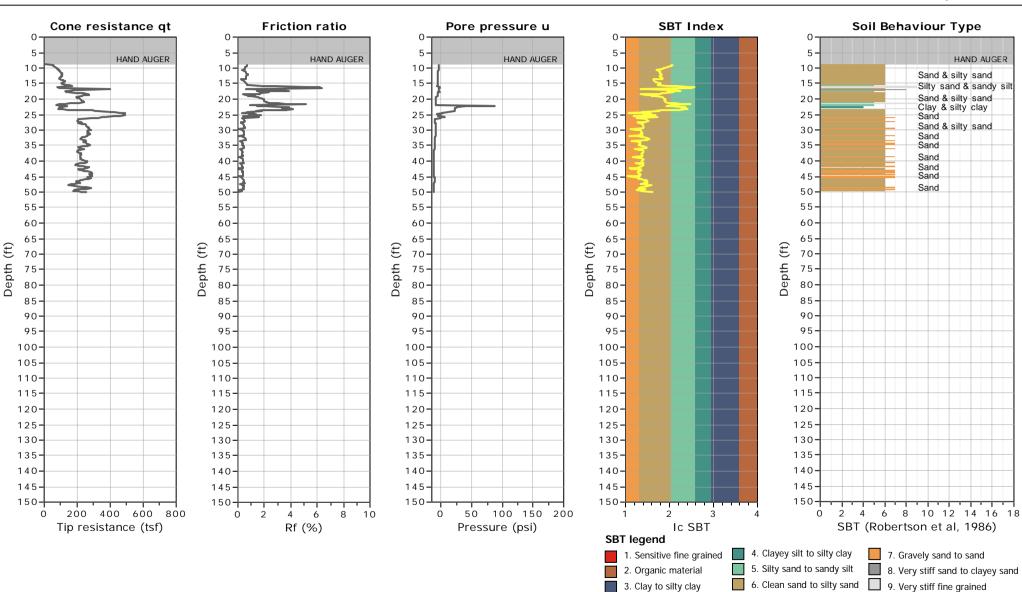
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 50.03 ft Surface Elevation: 293.72 ft

Coords: X:6317351.00, Y:2164037.00

Cone Type: GDC-51
Cone Operator: A.Sancen





Location: Fresno, CA

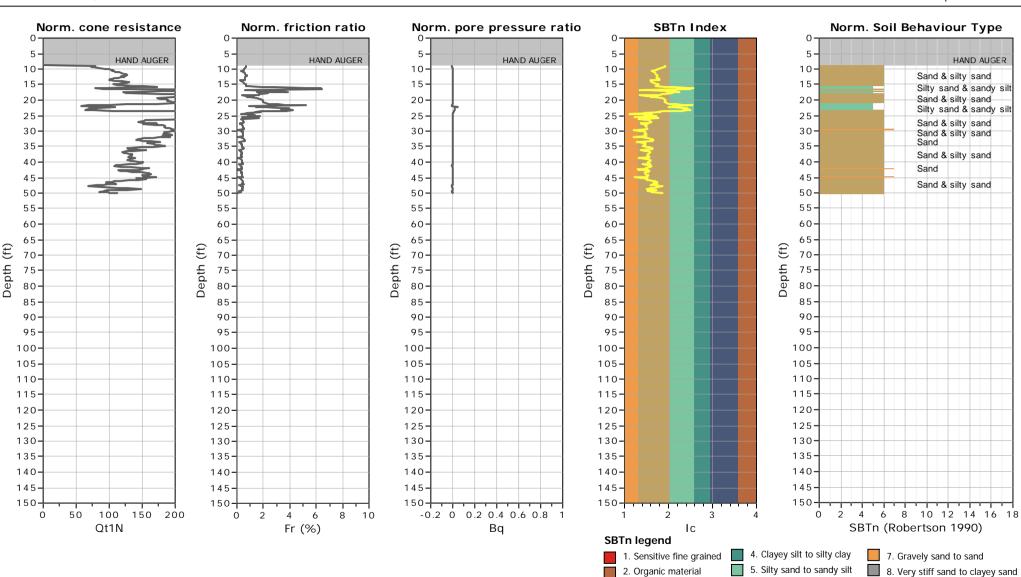
Total depth: 50.03 ft Surface Elevation: 293.72 ft

Coords: X:6317351.00, Y:2164037.00

Cone Type: GDC-51

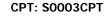
Cone Operator: A.Sancen

Project: California High-Speed Train



6. Clean sand to silty sand 9. Very stiff fine grained

3. Clay to silty clay

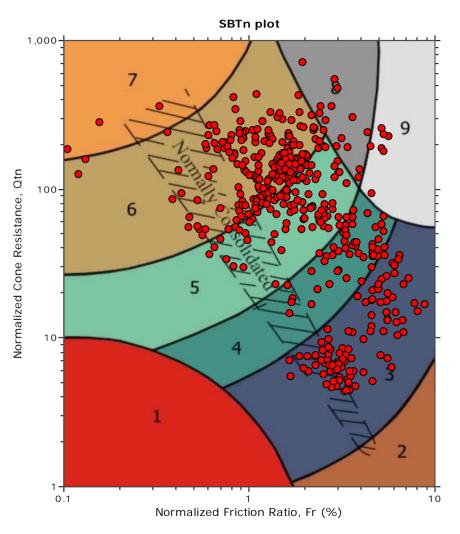


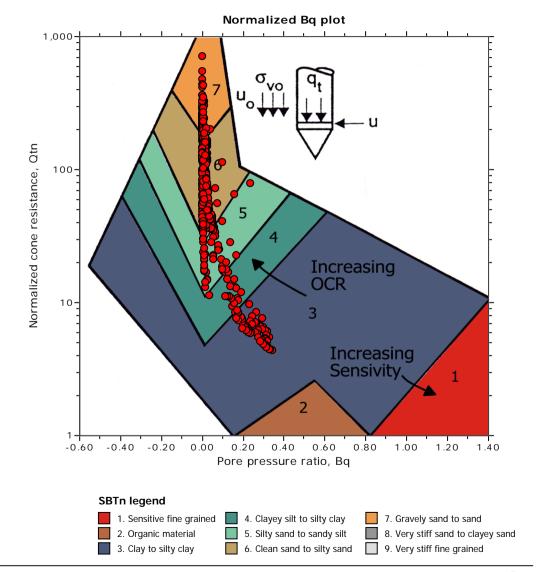
Total depth: 80.22 ft Surface Elevation: 287.52 ft

Coords: X:6318312.50, Y:2162577.25

Cone Type: GDC-27 Cone Operator: T.Patterson

Project: California High-Speed Train Location: Fresno, CA







Total depth: 80.22 ft

Surface Elevation: 287.52 ft

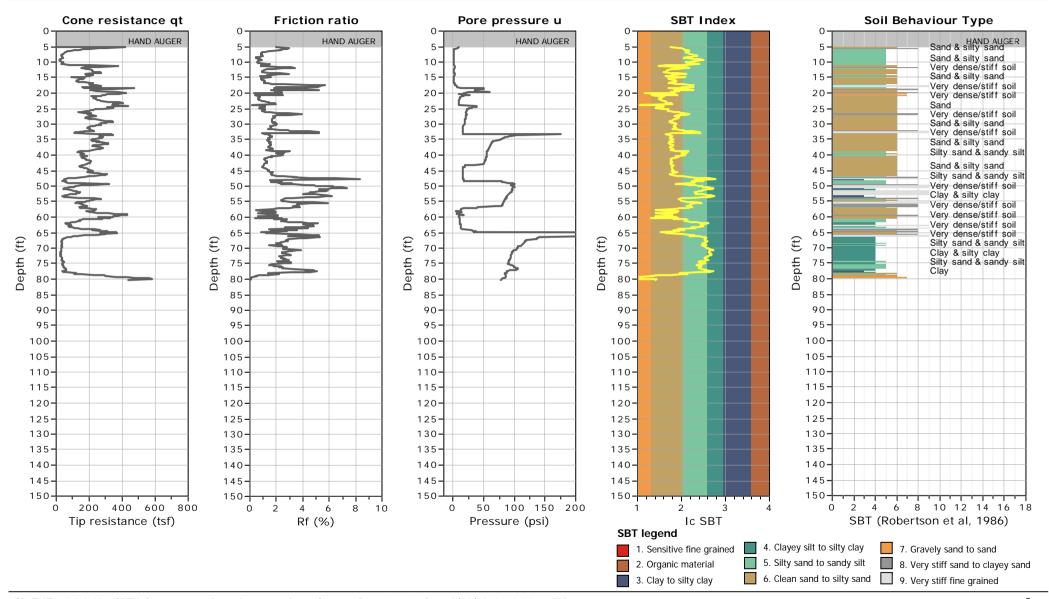
Coords: X:6318312.50, Y:2162577.25

Cone Type: GDC-27 Cone Operator: T.Patterson

Project: California High-Speed Train

Location: Fresno, CA

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Total depth: 80.22 ft

Surface Elevation: 287.52 ft

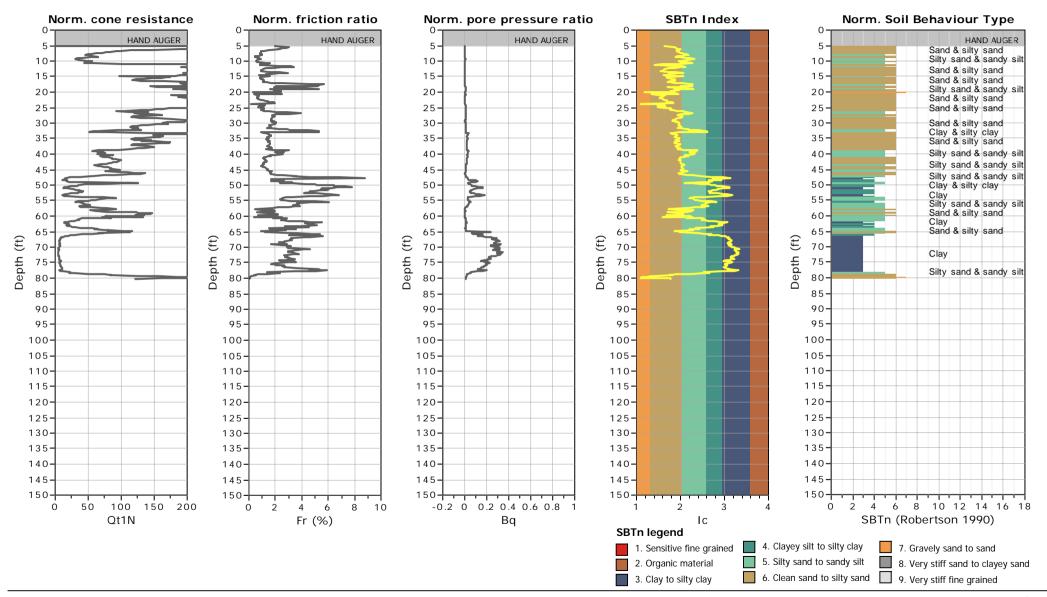
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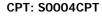
Cone Type: GDC-27
Cone Operator: T.Patterson

Project: California High-Speed Train

Geotechnical Software

Location: Fresno, CA







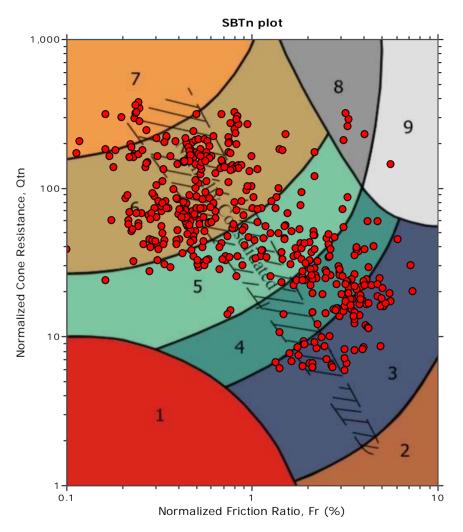
Project: California High-Speed Train

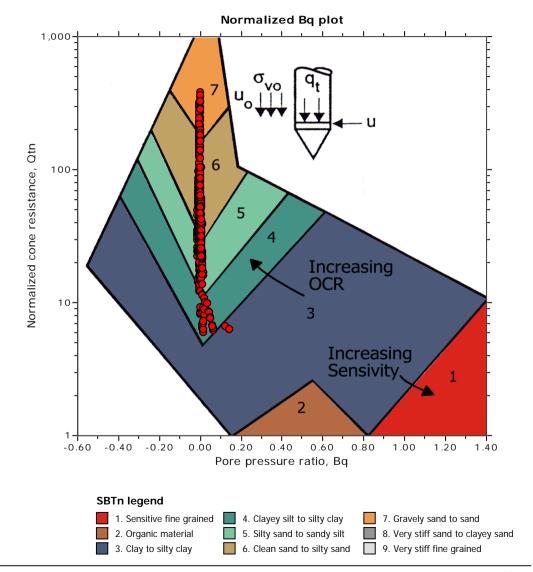
Location: Fresno, CA

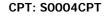
Total depth: 80.71 ft Surface Elevation: 289.24 ft

Coords: X:6318980.00, Y:2162522.50

Cone Type: GDC-27 Cone Operator: T.Patterson







Project: California High-Speed Train

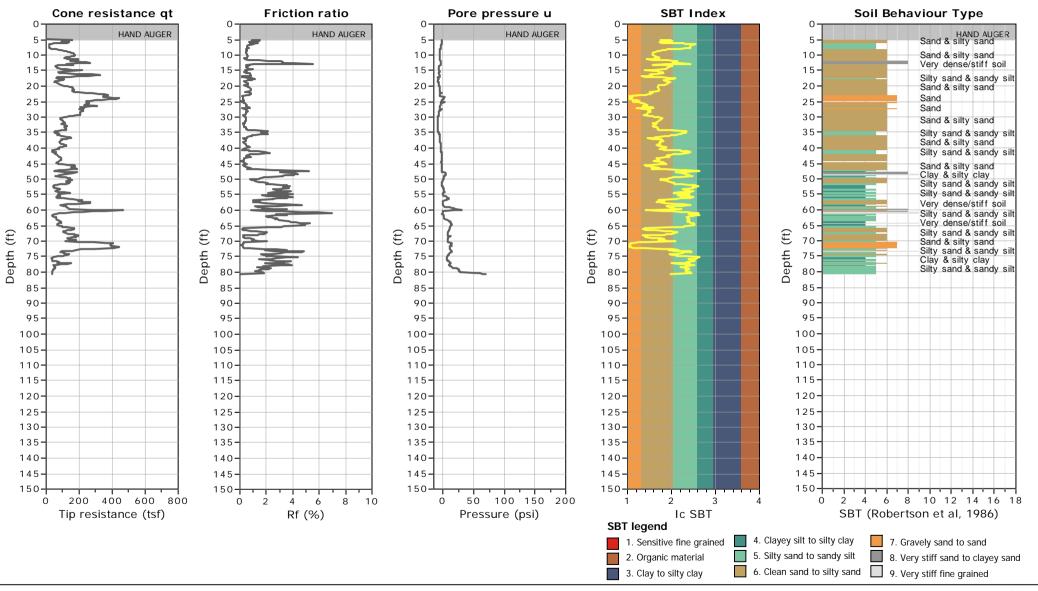
Location: Fresno, CA

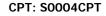
Total depth: 80.71 ft Surface Elevation: 289.24 ft

Coords: X:6318980.00, Y:2162522.50

Cone Type: GDC-27









Project: California High-Speed Train

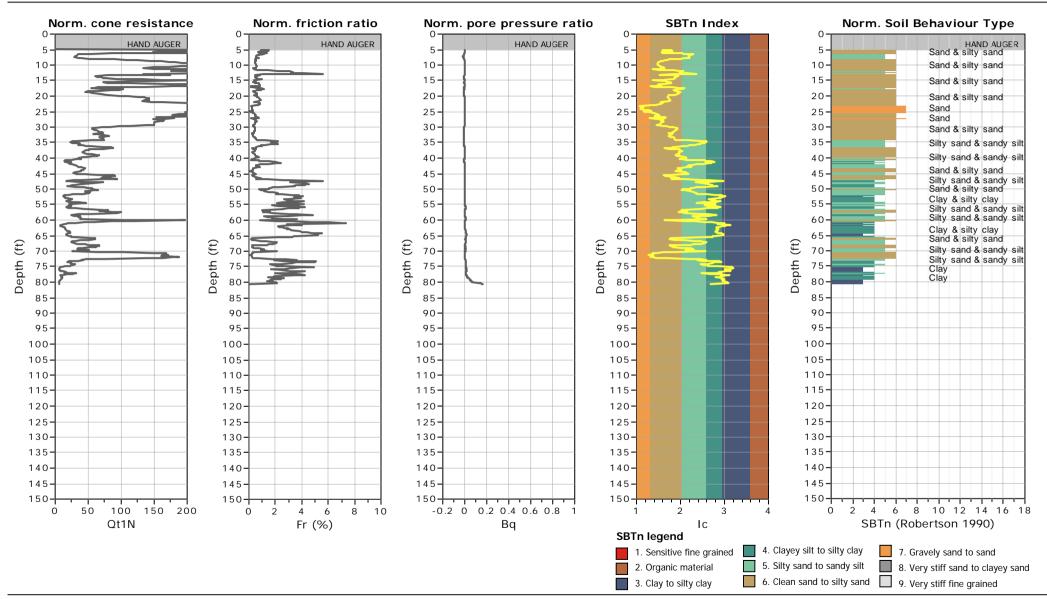
Location: Fresno, CA

Total depth: 80.71 ft Surface Elevation: 289.24 ft

Coords: X:6318980.00, Y:2162522.50

Cone Type: GDC-27

Cone Operator: T.Patterson





Total depth: 80.05 ft

Surface Elevation: 292.46 ft

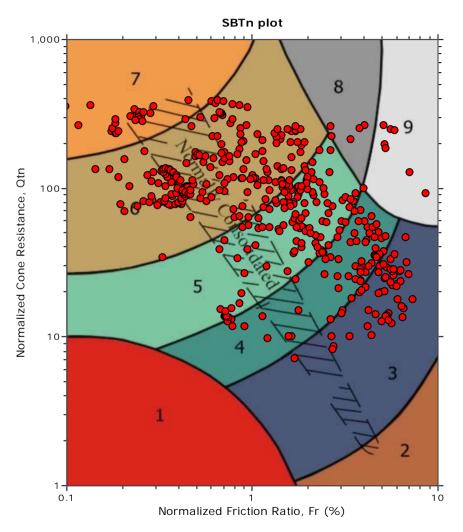
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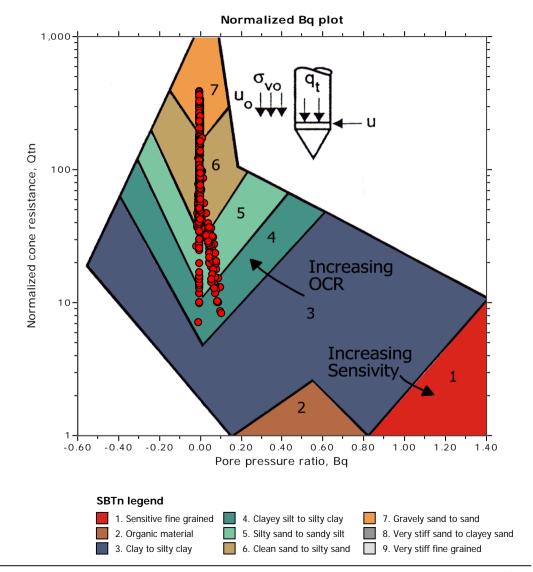
Cone Type: GDC-27 Cone Operator: T.Patterson

GEOLOGISMIKI Geotechnical Software

Project: California High-Speed Train

Location: Fresno, CA







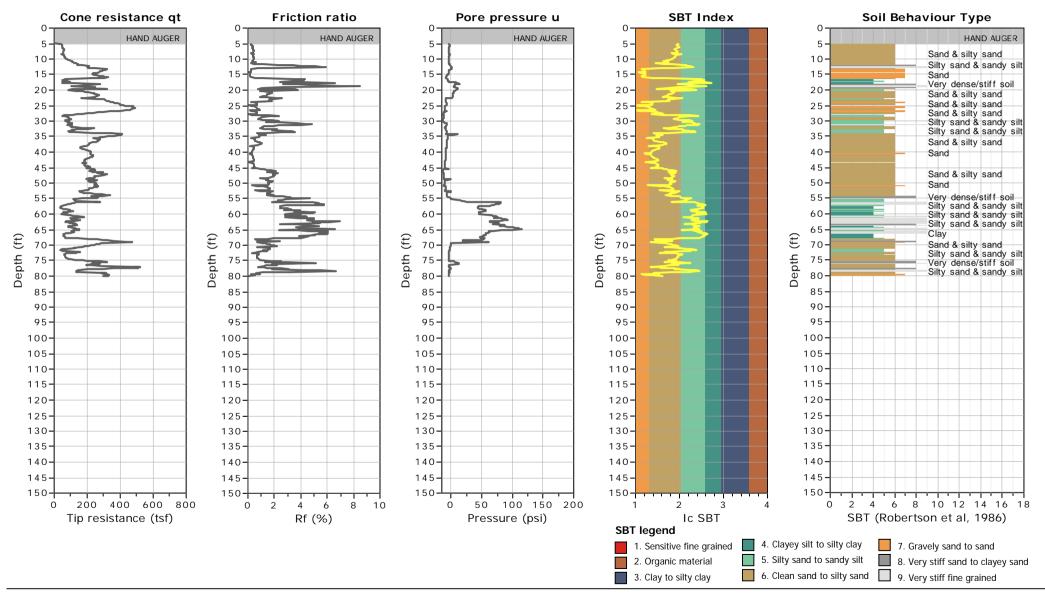
Total depth: 80.05 ft Surface Elevation: 292.46 ft

Coords: X:6321691.50, Y:2159881.50

Cone Type: GDC-27
Cone Operator: T.Patterson

Project: California High-Speed Train

Location: Fresno, CA





Geotechnical Software

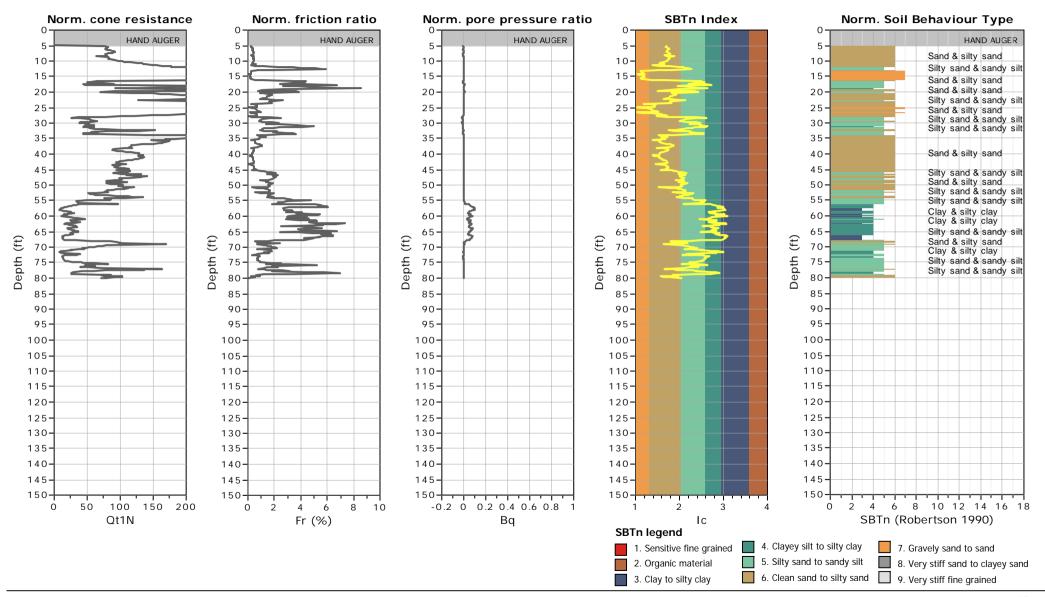
Total depth: 80.05 ft Surface Elevation: 292.46 ft

Coords: X:6321691.50, Y:2159881.50

Cone Type: GDC-27 Cone Operator: T.Patterson

Project: California High-Speed Train

Location: Fresno, CA



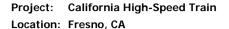


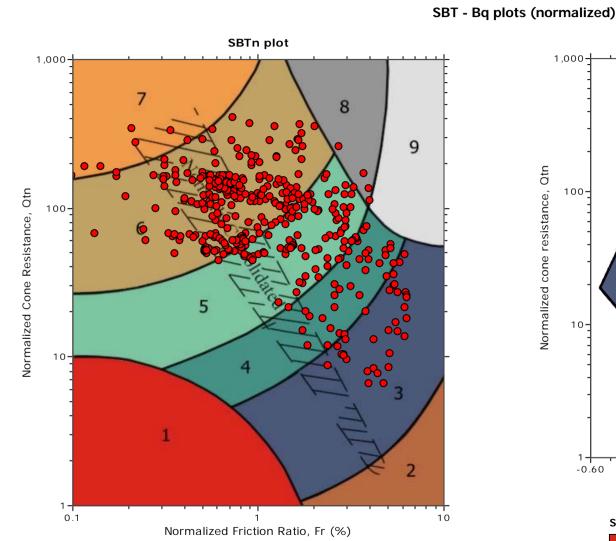
Total depth: 80.05 ft

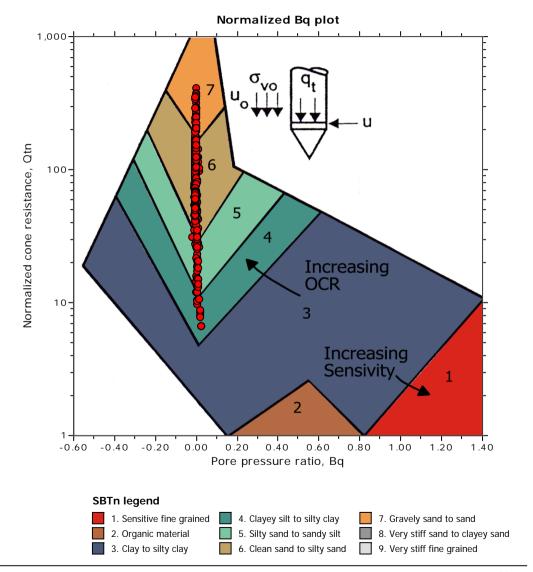
Surface Elevation: 295.07 ft

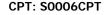
Coords: X:6320967.00, Y:2159855.50

Cone Type: GDC-27 Cone Operator: T.Patterson









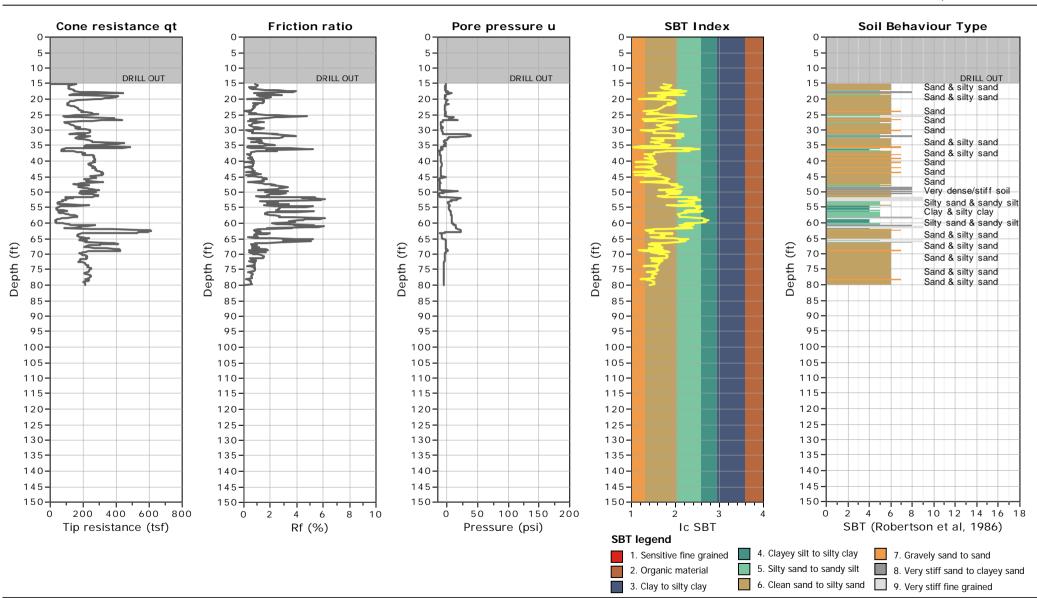
Project: California High-Speed Train

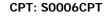
Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 295.07 ft

Coords: X:6320967.00, Y:2159855.50

Cone Type: GDC-27
Cone Operator: T.Patterson





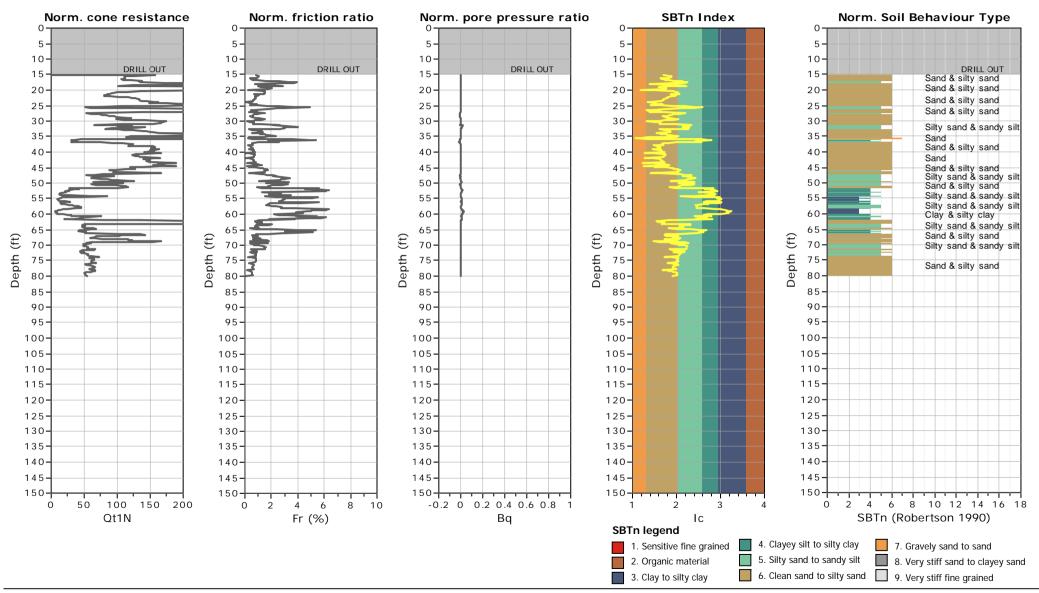
Location: Fresno, CA

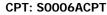
Project: California High-Speed Train

Total depth: 80.05 ft Surface Elevation: 295.07 ft

Coords: X:6320967.00, Y:2159855.50

Cone Type: GDC-27
Cone Operator: T.Patterson





Total depth: 52.49 ft

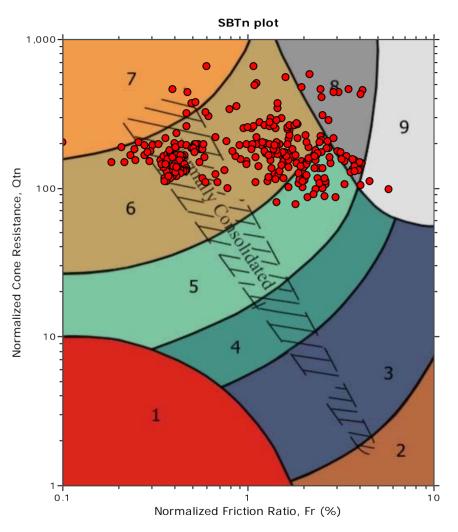
Surface Elevation: 290.05 ft

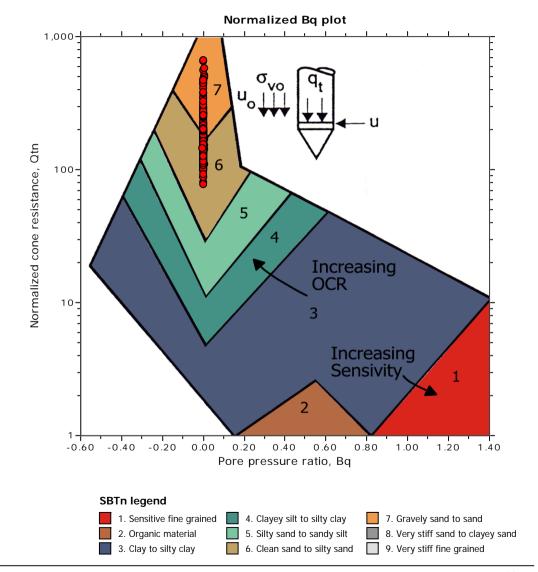
Coords: X:6322193.50, Y:2158796.75

Cone Type: GDC-24
Cone Operator: A.Sancen

Geotechnical Software

Project: California High-Speed Train Location: Fresno, CA







Project: California High-Speed Train

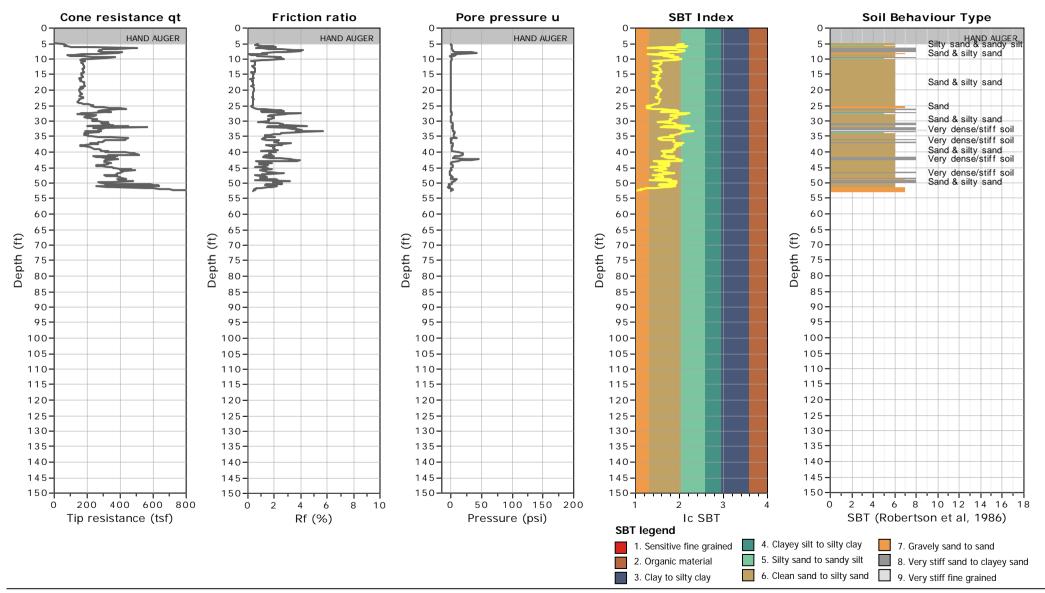
Location: Fresno, CA

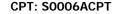
Total depth: 52.49 ft Surface Elevation: 290.05 ft

Coords: X:6322193.50, Y:2158796.75

Cone Type: GDC-24

Cone Operator: A.Sancen





Project: California High-Speed Train

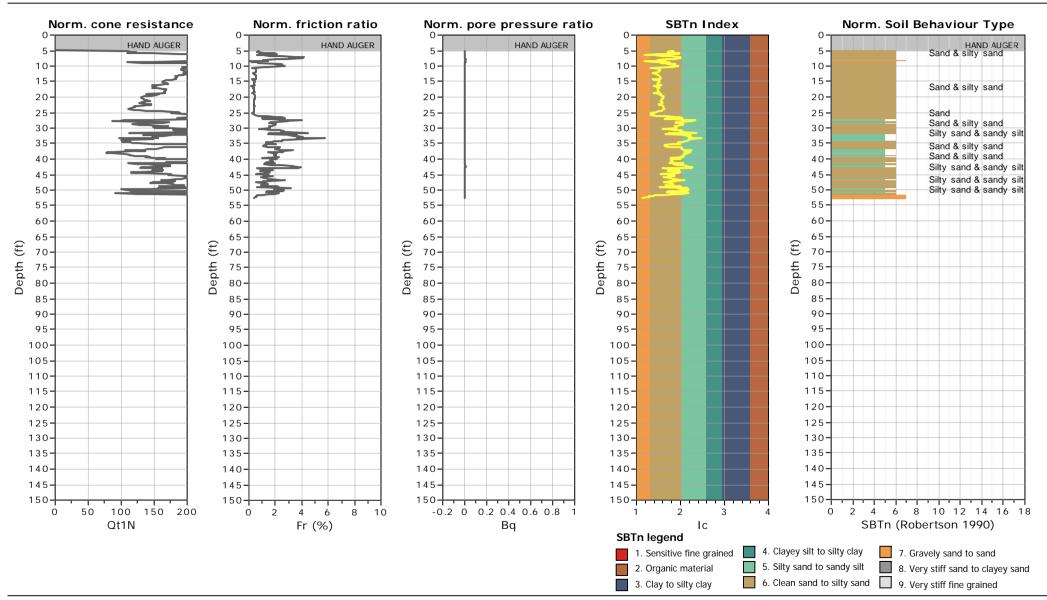
Location: Fresno, CA

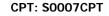
Total depth: 52.49 ft Surface Elevation: 290.05 ft

Coords: X:6322193.50, Y:2158796.75

Cone Type: GDC-24

Cone Operator: A.Sancen







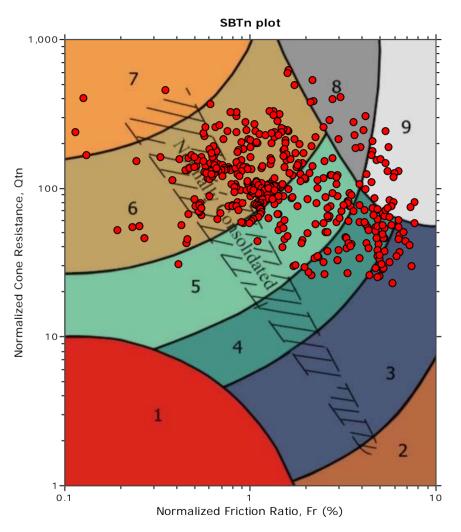
Project: California High-Speed Train

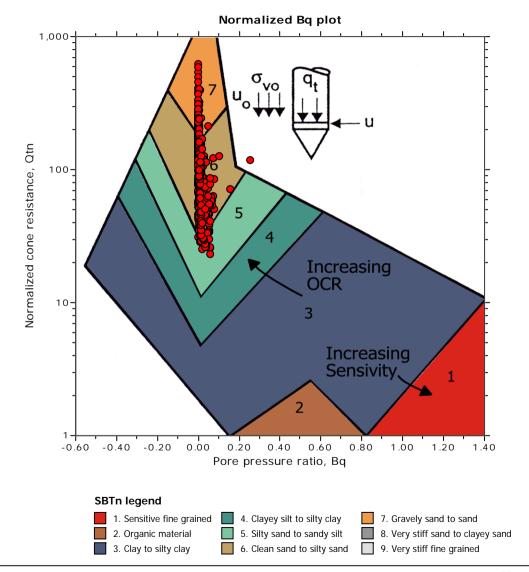
Location: Fresno, CA

Total depth: 76.44 ft Surface Elevation: 287.06 ft

Coords: X:6323012.00, Y:2157330.25

Cone Type: GDC-51
Cone Operator: A.Sancen







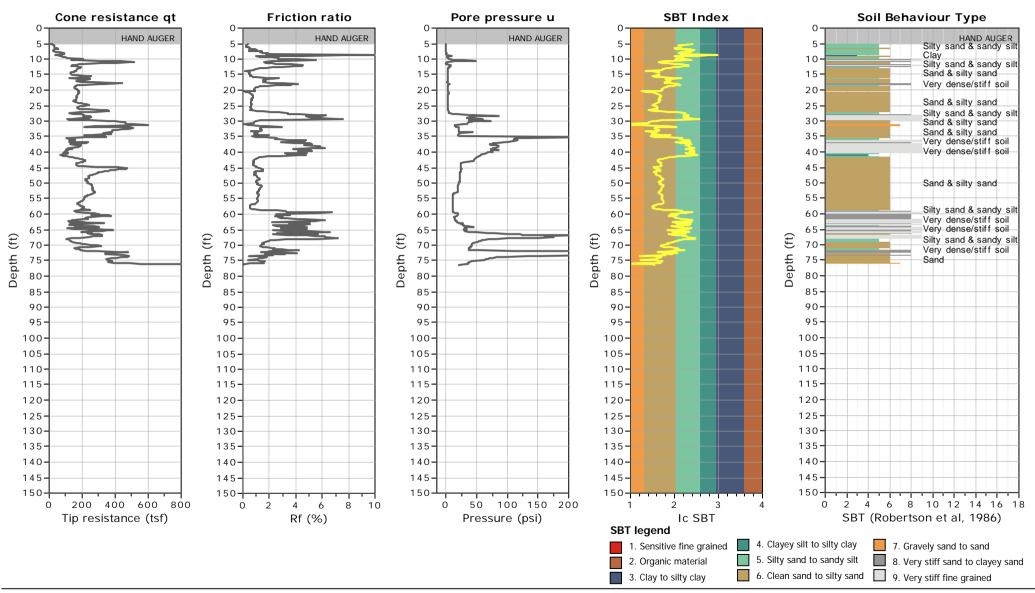


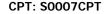
Location: Fresno, CA

Total depth: 76.44 ft Surface Elevation: 287.06 ft

Coords: X:6323012.00, Y:2157330.25

Cone Type: GDC-51
Cone Operator: A.Sancen





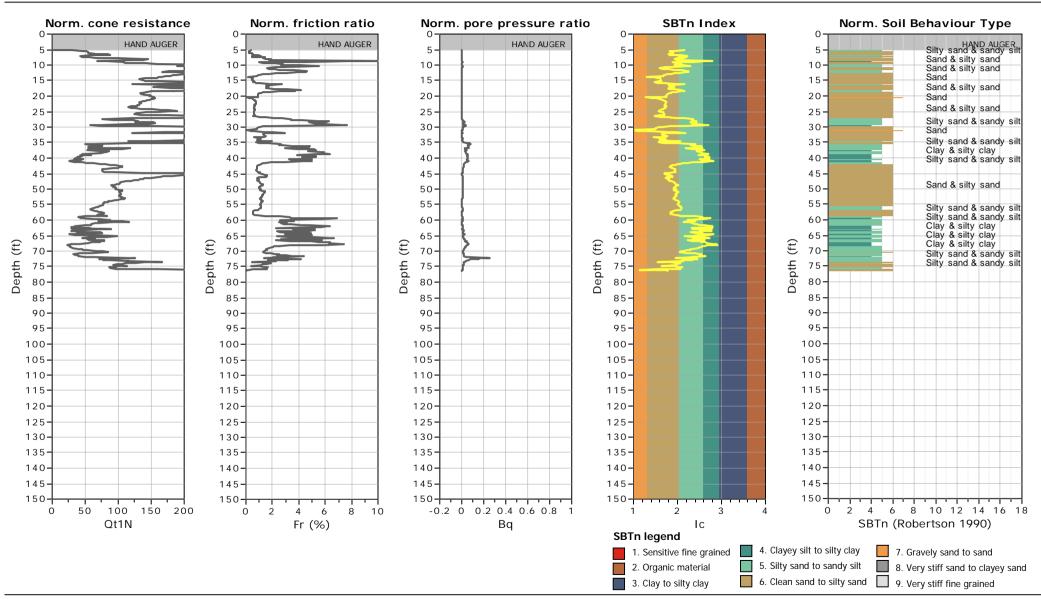


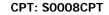
Location: Fresno, CA

Total depth: 76.44 ft Surface Elevation: 287.06 ft

Coords: X:6323012.00, Y:2157330.25

Cone Type: GDC-51
Cone Operator: A.Sancen





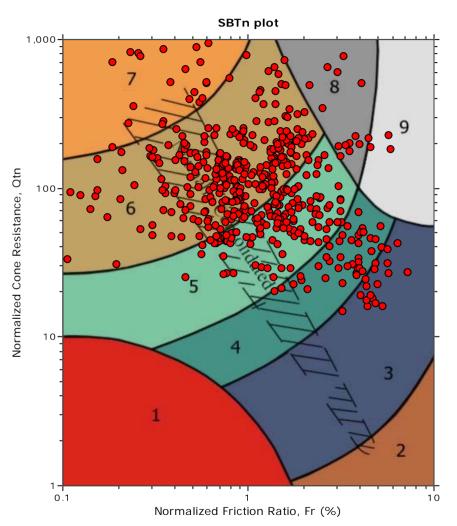


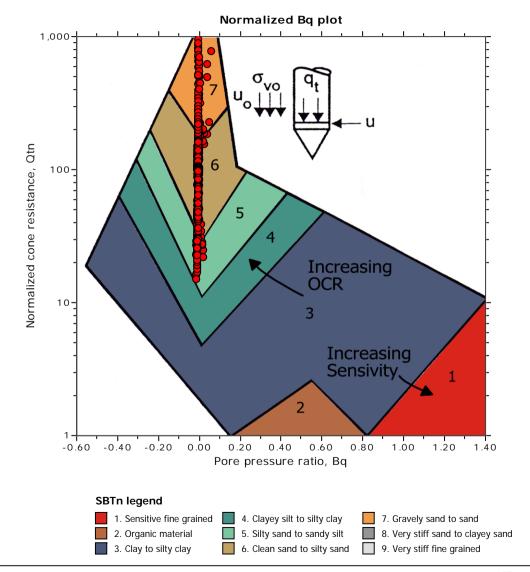
Location: Fresno, CA

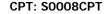
Total depth: 100.23 ft Surface Elevation: 285.31 ft

Coords: X:6324017.00, Y:2156853.75

Cone Type: GDC-52 Cone Operator: A.Sancen







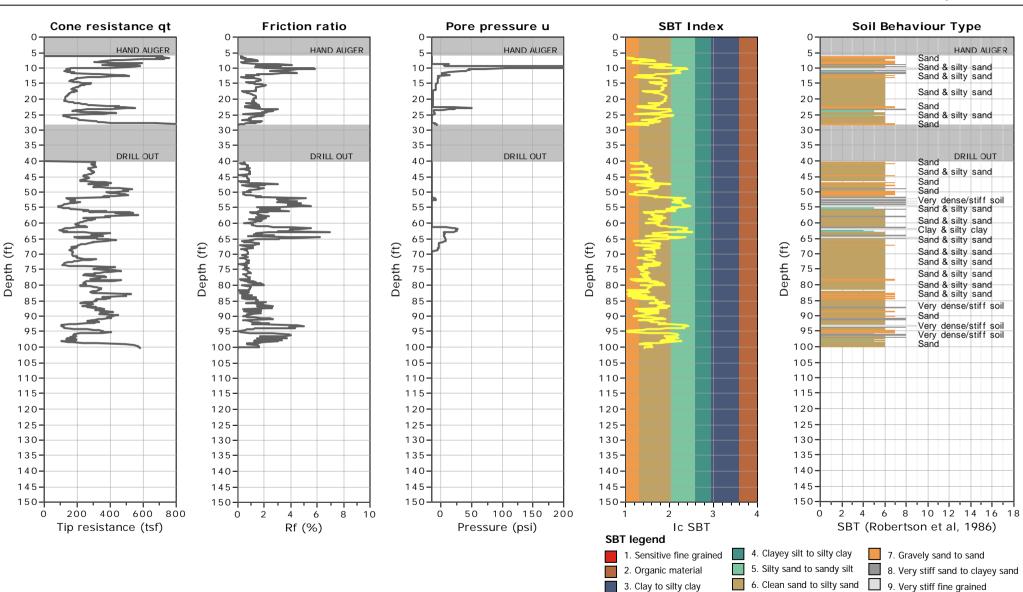
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 285.31 ft

Coords: X:6324017.00, Y:2156853.75

Cone Type: GDC-52
Cone Operator: A.Sancen





Project: California High-Speed Train

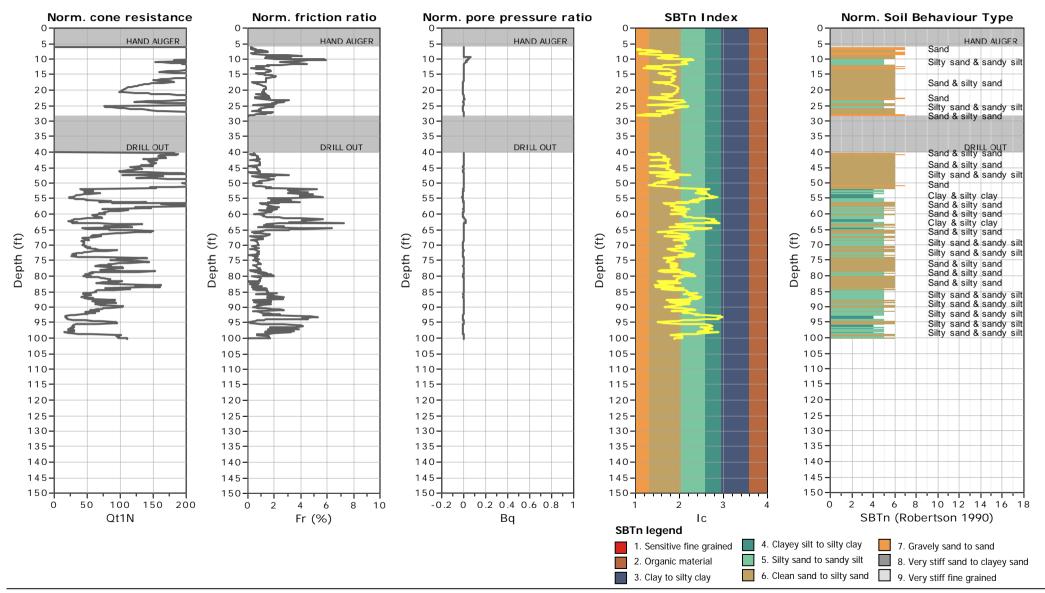
Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 285.31 ft

Coords: X:6324017.00, Y:2156853.75

Cone Type: GDC-52

Cone Operator: A.Sancen





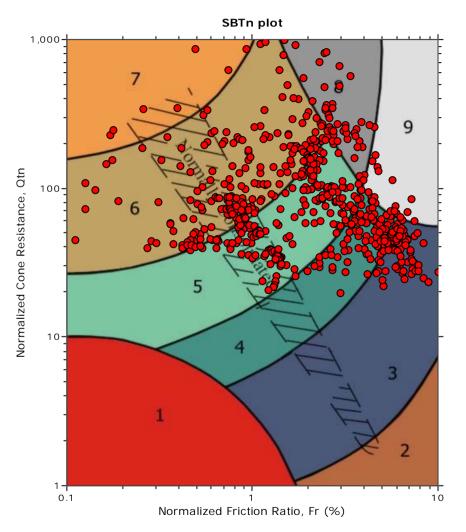


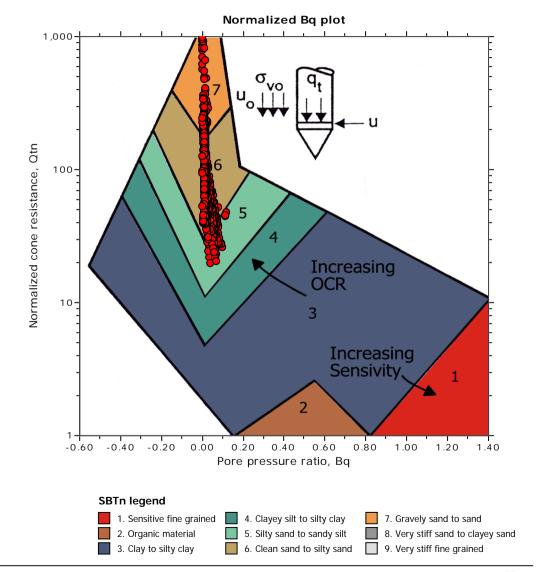
Location: Fresno, CA

Total depth: 105.81 ft Surface Elevation: 286.75 ft

Coords: X:6323848.00, Y:2157307.00

Cone Type: GDC-27 Cone Operator: T.Patterson







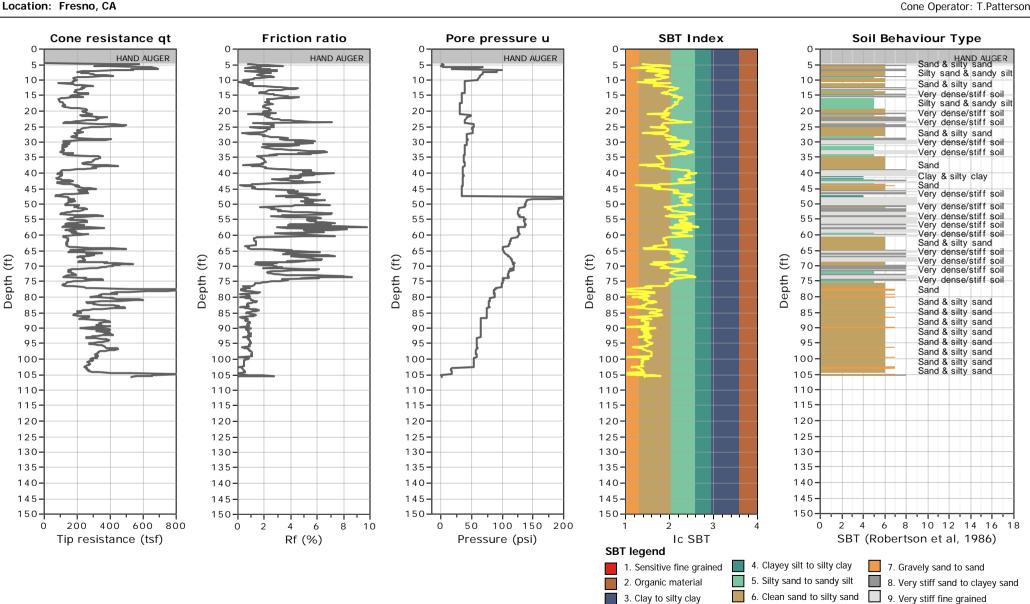


Location: Fresno, CA

Total depth: 105.81 ft Surface Elevation: 286.75 ft

Coords: X:6323848.00, Y:2157307.00

Cone Type: GDC-27



3. Clay to silty clay



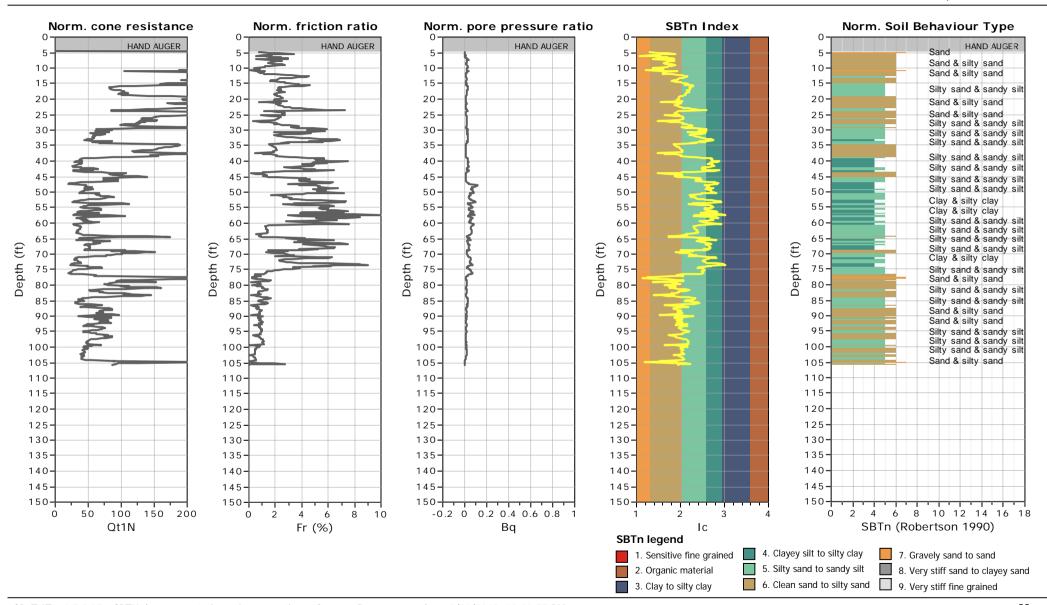


Location: Fresno, CA

Total depth: 105.81 ft Surface Elevation: 286.75 ft

Coords: X:6323848.00, Y:2157307.00

Cone Type: GDC-27
Cone Operator: T.Patterson





Total depth: 59.22 ft

Surface Elevation: 283.43 ft

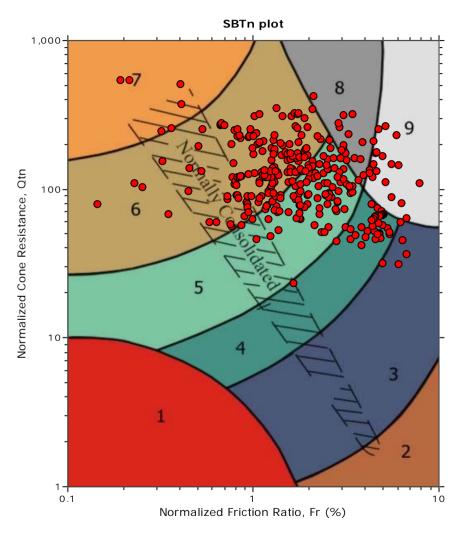
Coords: X:6324305.50, Y:2156608.75

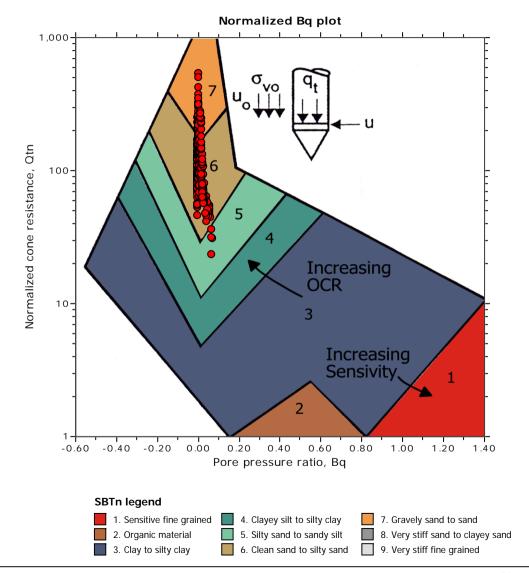
Cone Type: GDC-51
Cone Operator: A.Sancen

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Project: California High-Speed Train

Location: Fresno, CA







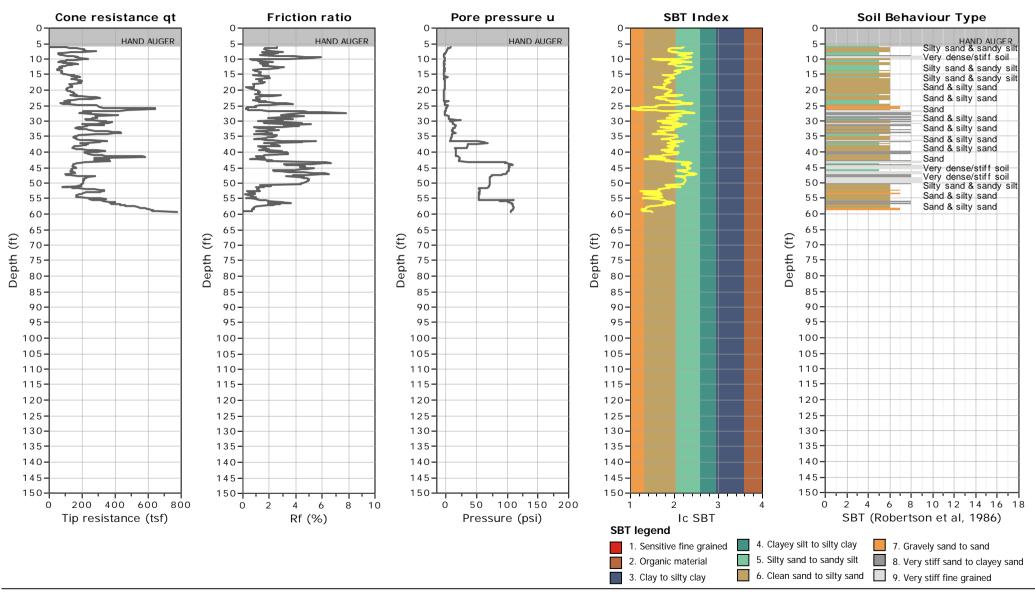


Location: Fresno, CA

Total depth: 59.22 ft Surface Elevation: 283.43 ft

Coords: X:6324305.50, Y:2156608.75

Cone Type: GDC-51
Cone Operator: A.Sancen





Total depth: 59.22 ft Surface Elevation: 283.43 ft

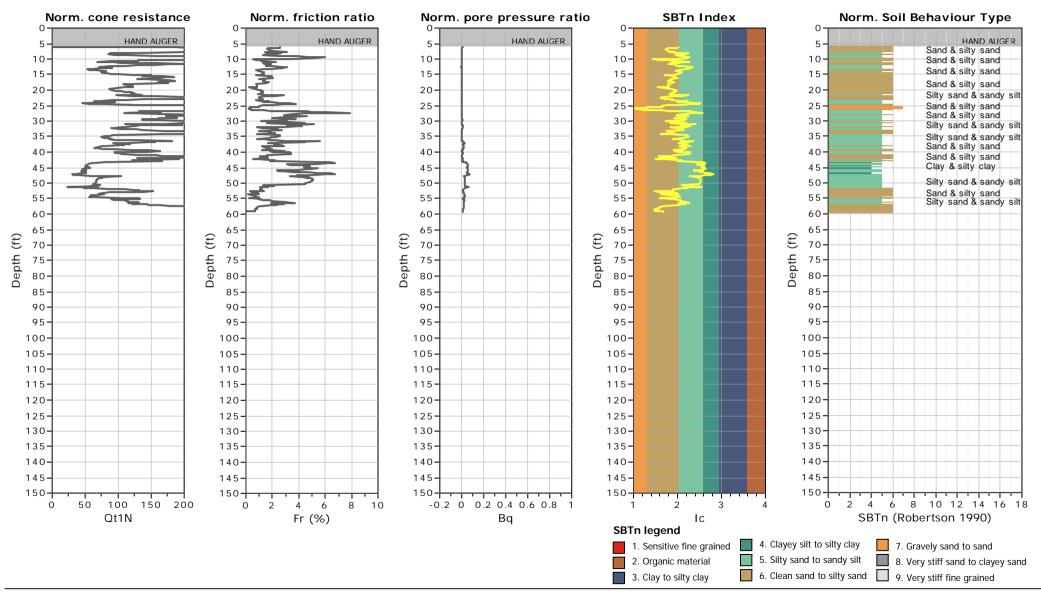
Coords: X:6324305.50, Y:2156608.75

Cone Type: GDC-51

Cone Type: GDC-51

Cone Operator: A.Sancen

Project: California High-Speed Train Location: Fresno, CA





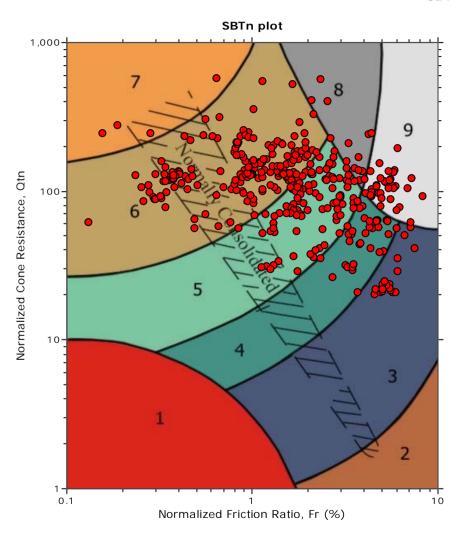
Total depth: 66.60 ft

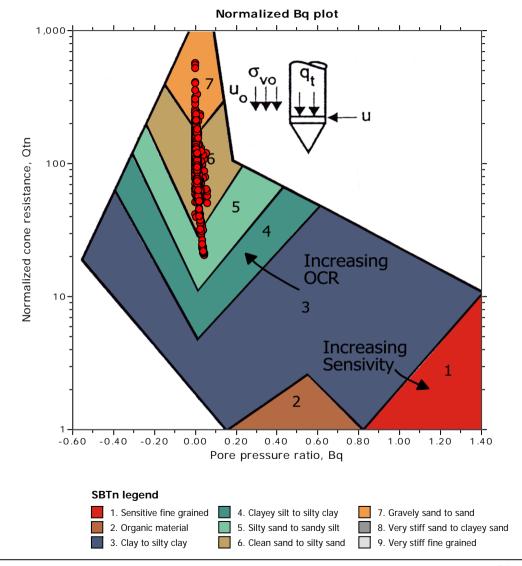
Surface Elevation: 284.44 ft Coords: X:6324747.00, Y:2156091.75

Cone Type: GDC-27 Cone Operator: T.Patterson

Project: California High-Speed Train

Location: Fresno, CA







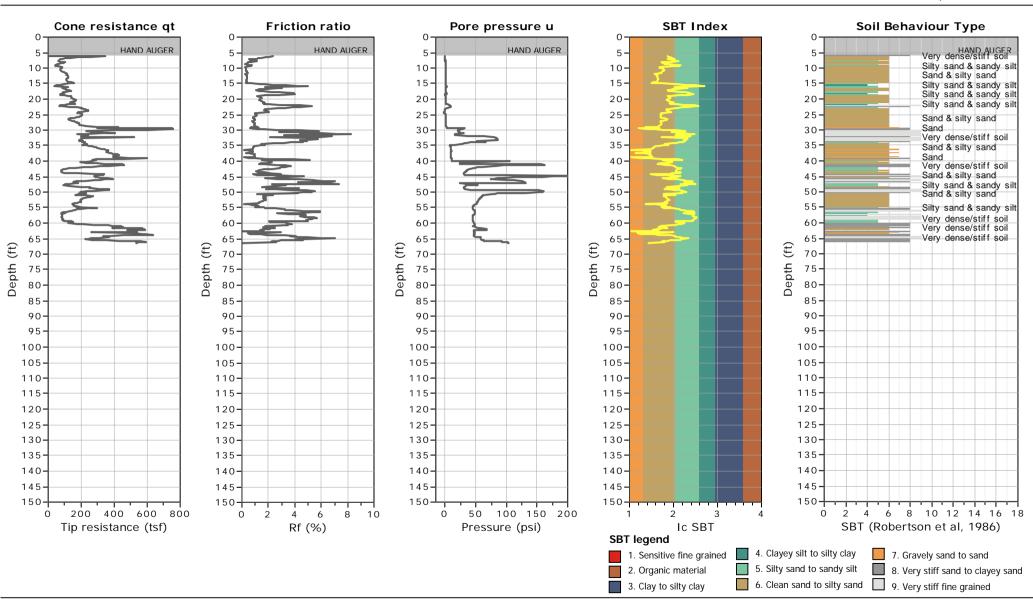


Location: Fresno, CA

Total depth: 66.60 ft Surface Elevation: 284.44 ft

Coords: X:6324747.00, Y:2156091.75

Cone Type: GDC-27
Cone Operator: T.Patterson





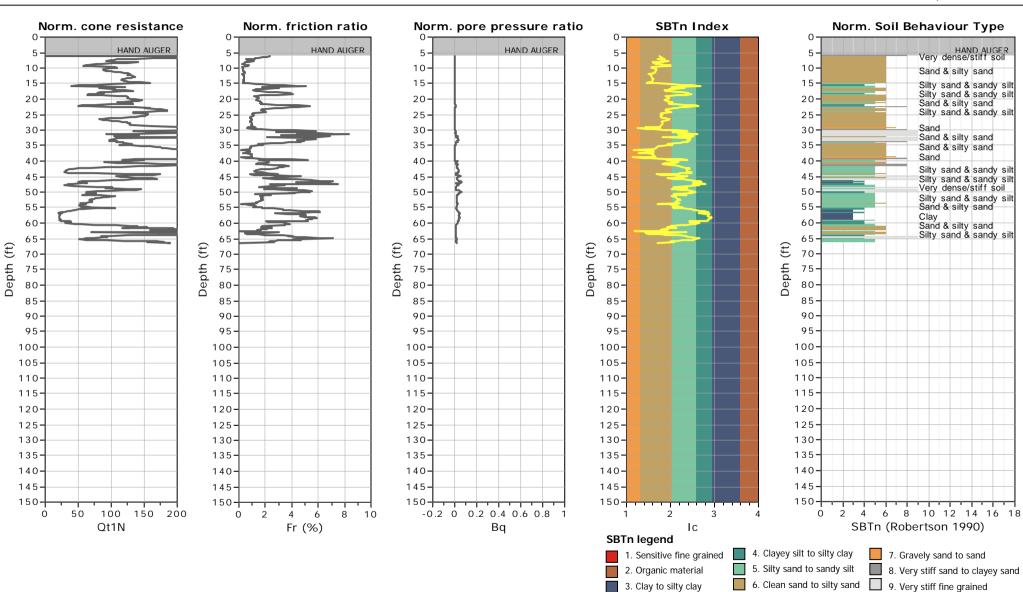
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 66.60 ft Surface Elevation: 284.44 ft

Coords: X:6324747.00, Y:2156091.75

Cone Type: GDC-27
Cone Operator: T.Patterson





Total depth: 102.69 ft Surface Elevation: 288.85 ft

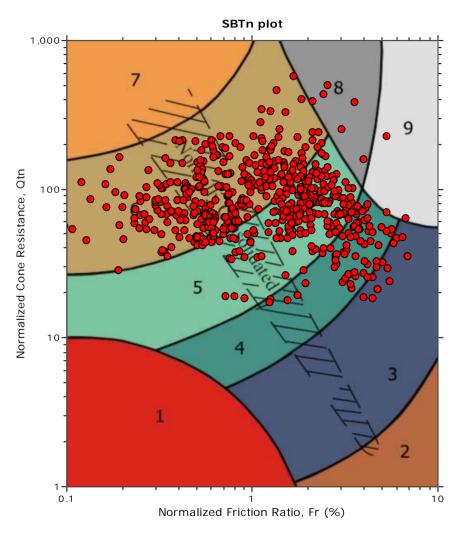
Coords: X:6324548.50, Y:2155038.00

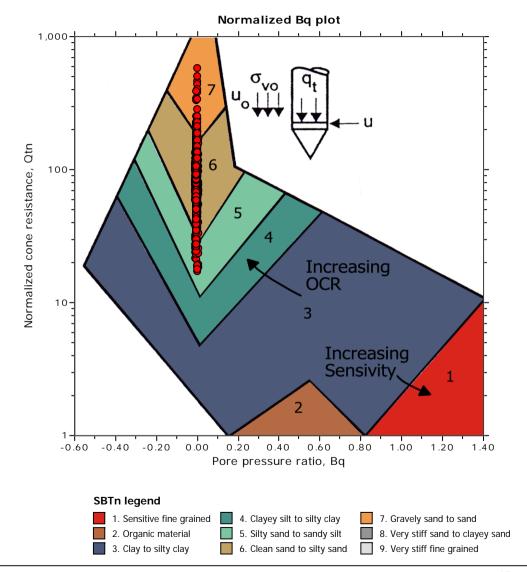
Cone Type: GDC-51
Cone Operator: A.Sancen

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Project: California High-Speed Train

Location: Fresno, CA







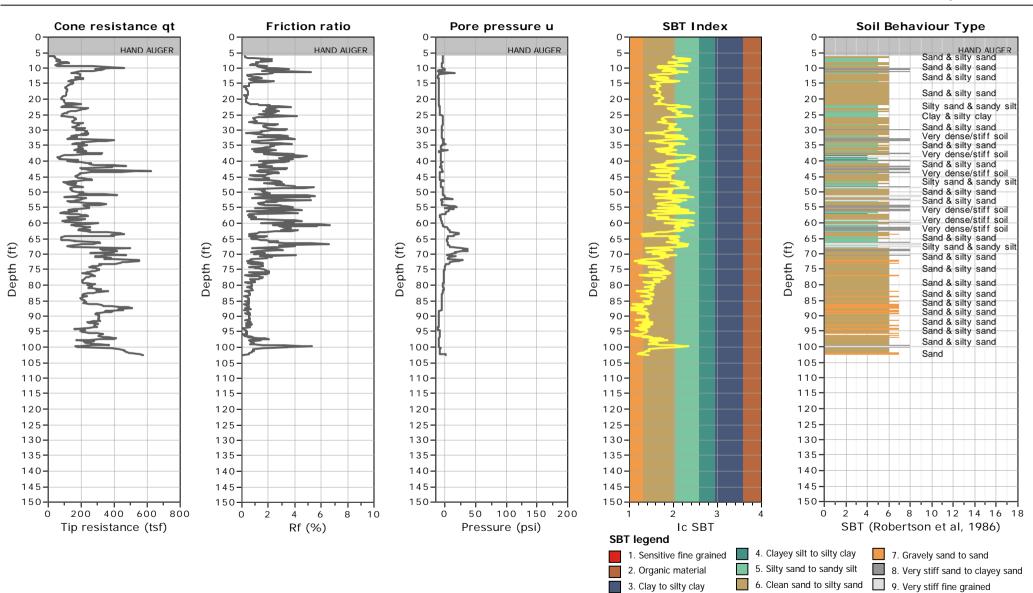
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 102.69 ft Surface Elevation: 288.85 ft

Coords: X:6324548.50, Y:2155038.00

Cone Type: GDC-51
Cone Operator: A.Sancen





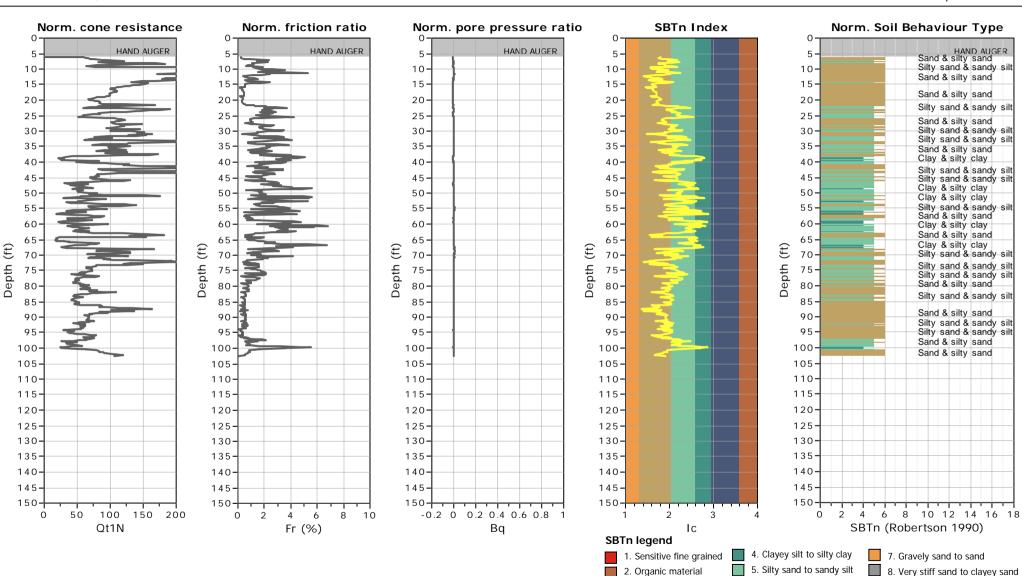
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 102.69 ft Surface Elevation: 288.85 ft

Coords: X:6324548.50, Y:2155038.00

Cone Type: GDC-51
Cone Operator: A.Sancen



6. Clean sand to silty sand 9. Very stiff fine grained

3. Clay to silty clay



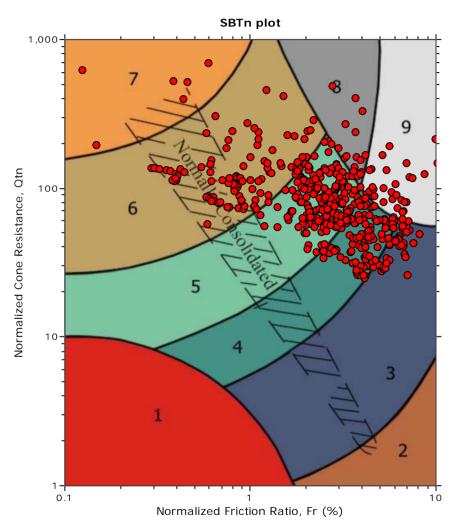
Project: California High-Speed Train

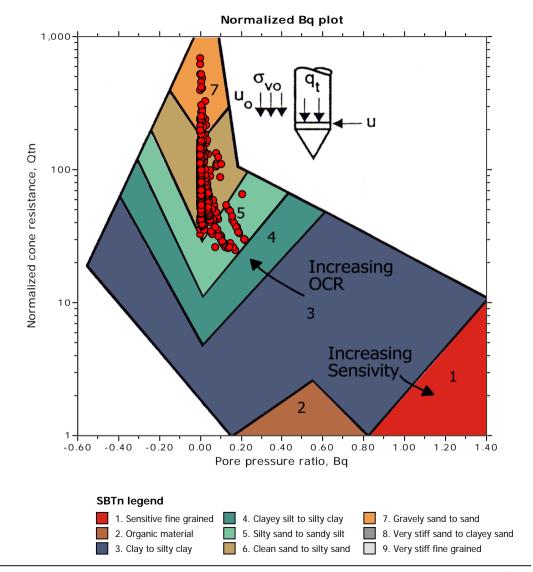
Location: Fresno, CA

Total depth: 101.21 ft Surface Elevation: 285.05 ft

Coords: X:6325407.00, Y:2155267.50

Cone Type: GDC-27 Cone Operator: T.Patterson







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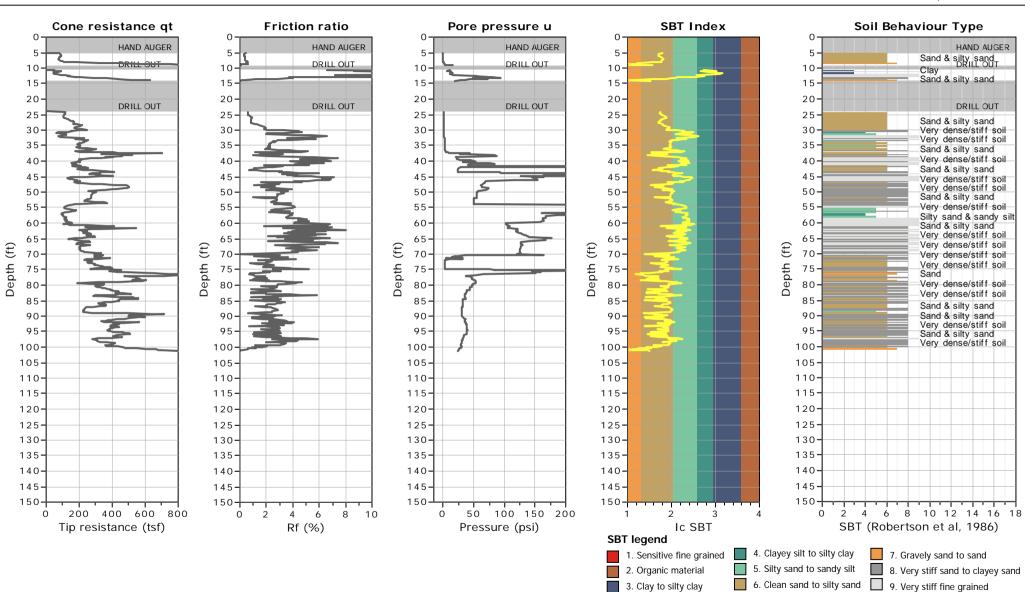
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 101.21 ft Surface Elevation: 285.05 ft

Coords: X:6325407.00, Y:2155267.50

Cone Type: GDC-27 Cone Operator: T.Patterson



3. Clay to silty clay





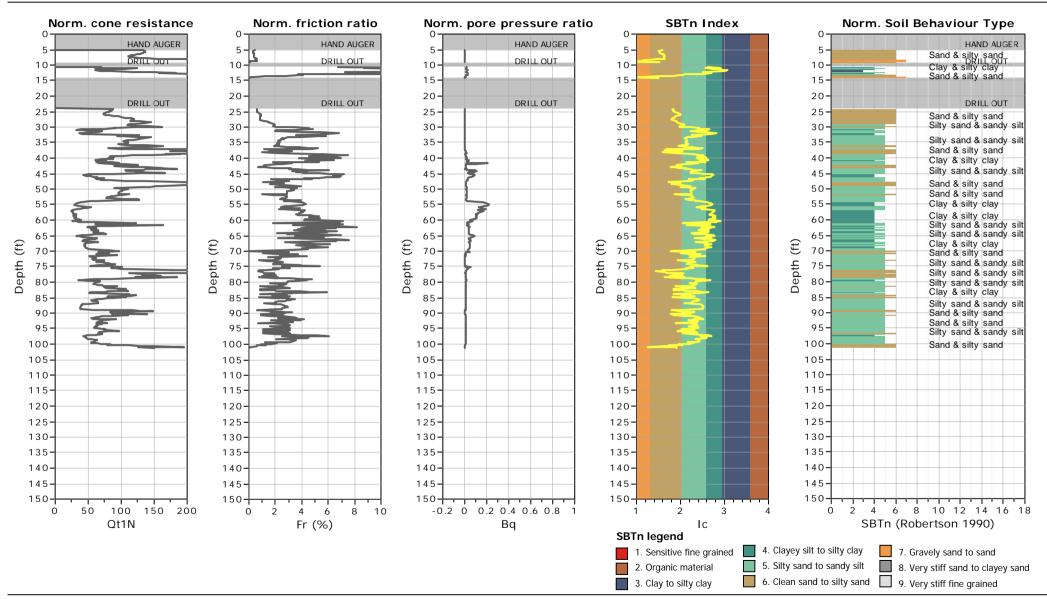
Location: Fresno, CA

Total depth: 101.21 ft Surface Elevation: 285.05 ft

Coords: X:6325407.00, Y:2155267.50

Cone Type: GDC-27

Cone Operator: T.Patterson





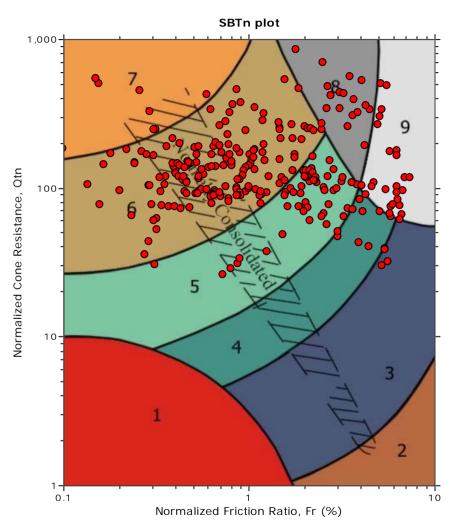
Project: California High-Speed Train

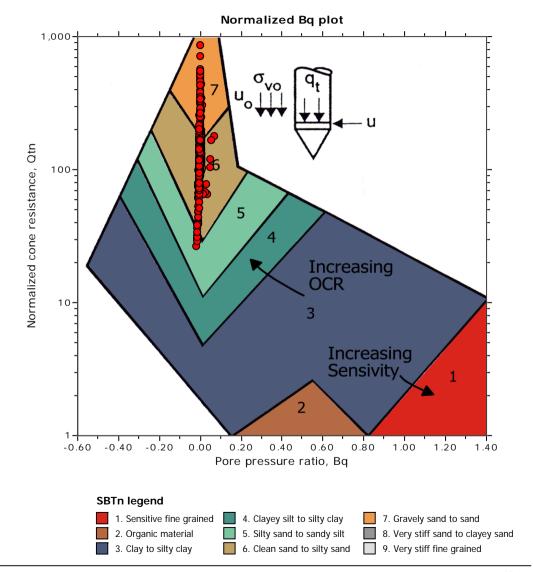
Location: Fresno, CA

Total depth: 52.17 ft Surface Elevation: 287.64 ft

Coords: X:6325494.00, Y:2154687.00

Cone Type: GDC-51
Cone Operator: A.Sancen







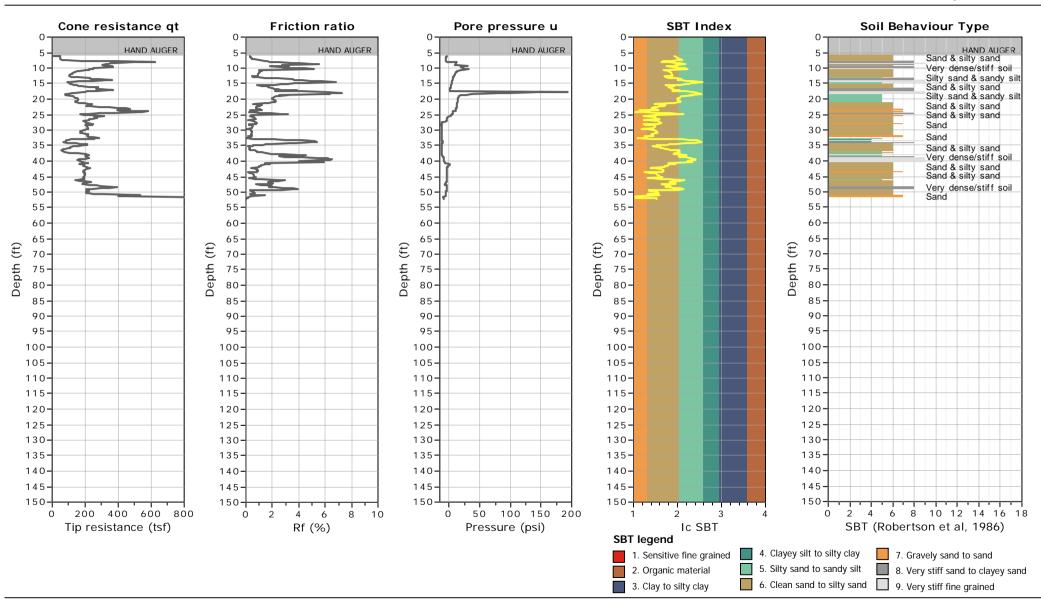
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 52.17 ft Surface Elevation: 287.64 ft

Coords: X:6325494.00, Y:2154687.00

Cone Type: GDC-51
Cone Operator: A.Sancen





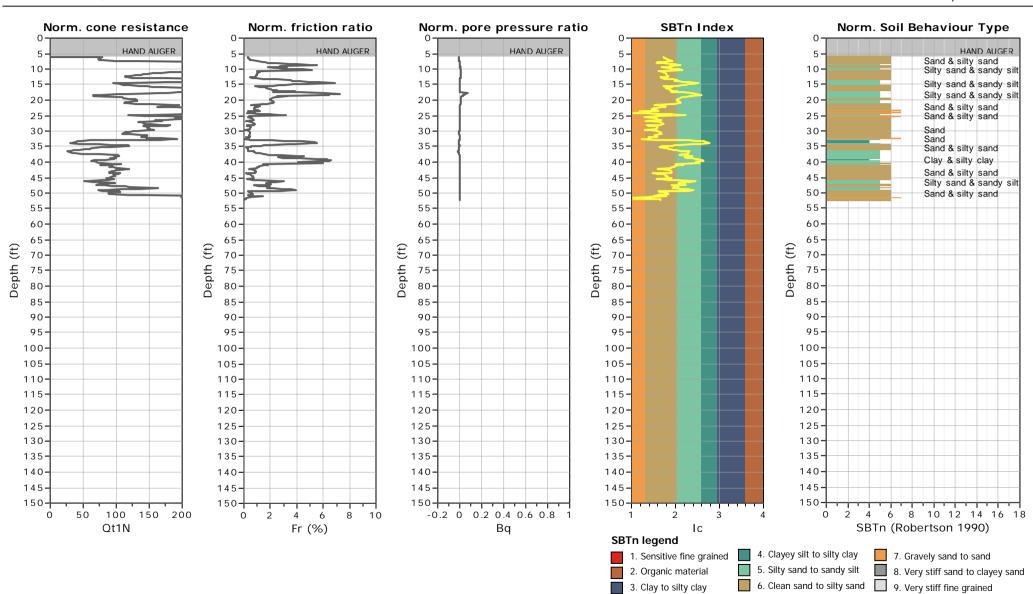


Location: Fresno, CA

Total depth: 52.17 ft Surface Elevation: 287.64 ft

Coords: X:6325494.00, Y:2154687.00

Cone Type: GDC-51
Cone Operator: A.Sancen





Total depth: 114.67 ft Surface Elevation: 286.11 ft

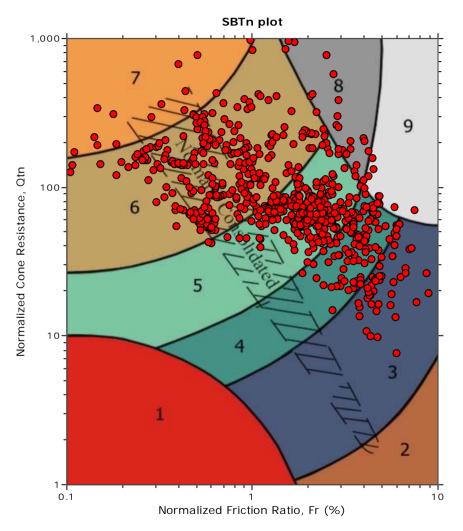
Coords: X:6326261.00, Y:2153498.50

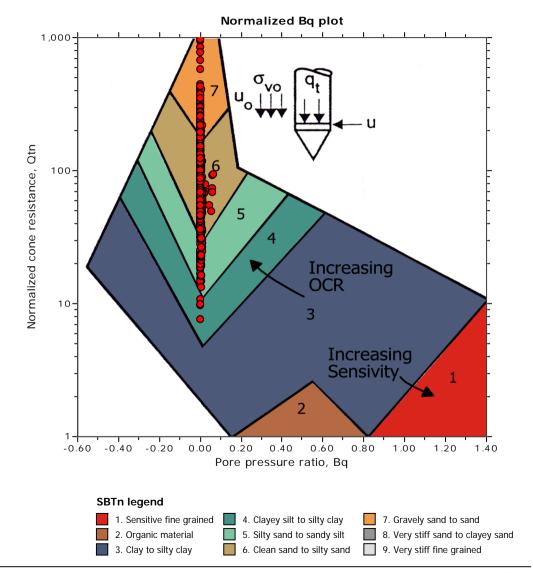
Cone Type: GDC-27

Cone Operator: T.Patterson

Project: California High-Speed Train

Location: Fresno, CA







Project: California High-Speed Train

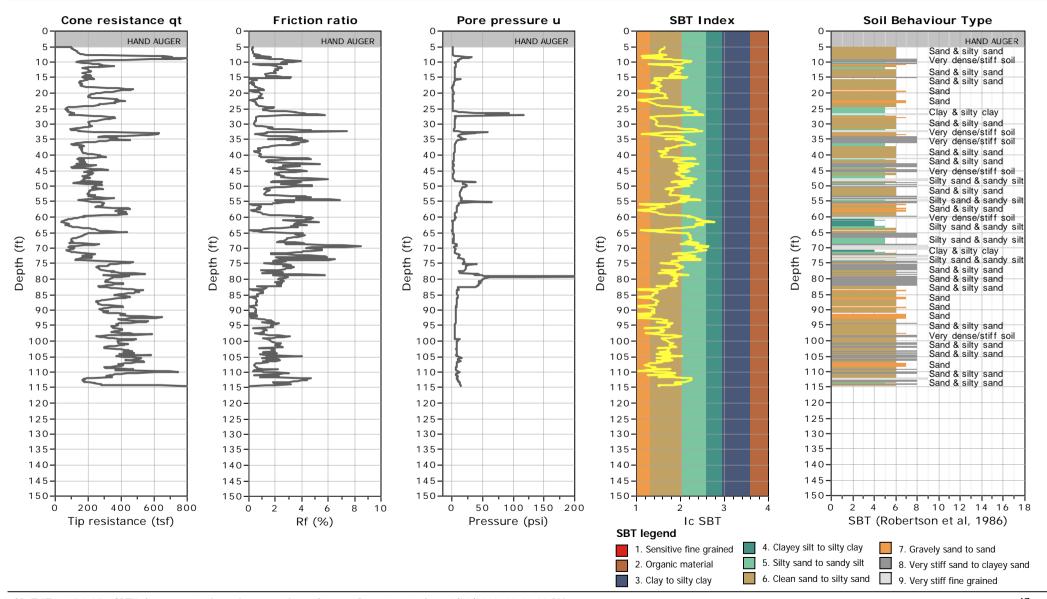
Location: Fresno, CA

Total depth: 114.67 ft Surface Elevation: 286.11 ft

Coords: X:6326261.00, Y:2153498.50

Cone Type: GDC-27







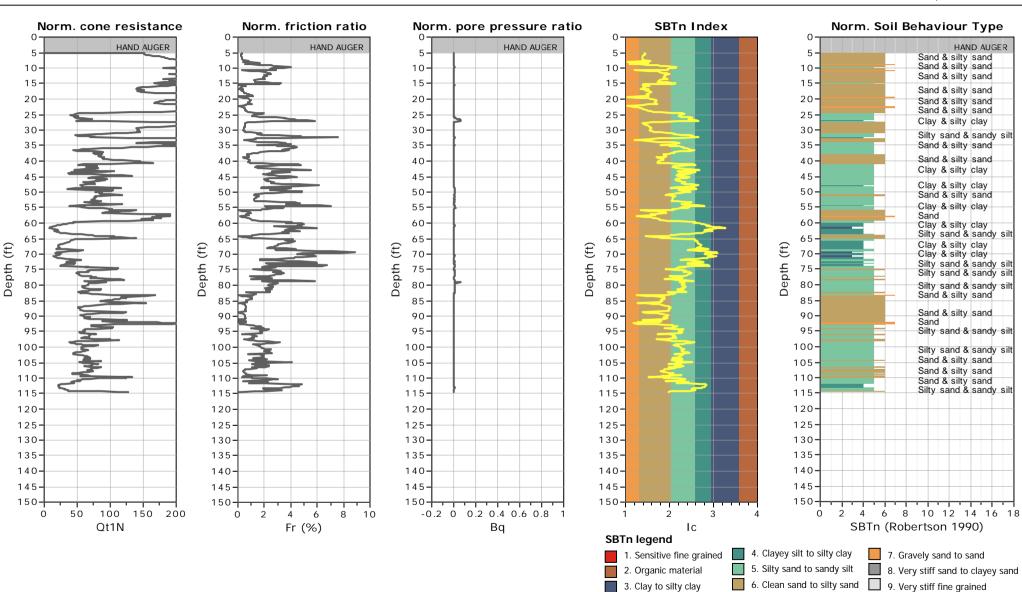


Location: Fresno, CA

Total depth: 114.67 ft Surface Elevation: 286.11 ft

Coords: X:6326261.00, Y:2153498.50

Cone Type: GDC-27
Cone Operator: T.Patterson





Total depth: 67.26 ft

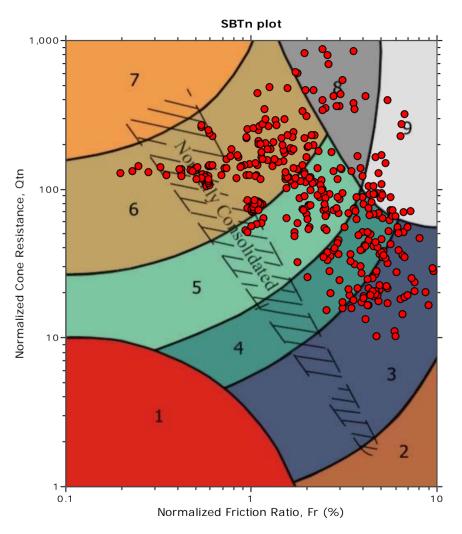
Surface Elevation: 285.37 ft

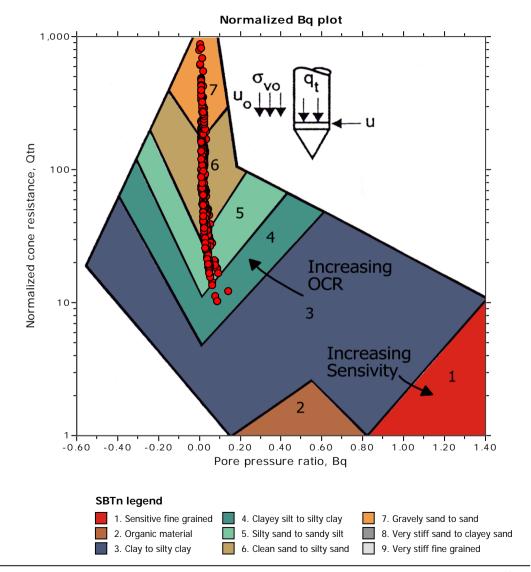
Coords: X:6327476.00, Y:2152082.75

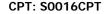
Cone Type: GDC-51
Cone Operator: A.Sancen

Project: California High-Speed Train

Location: Fresno, CA







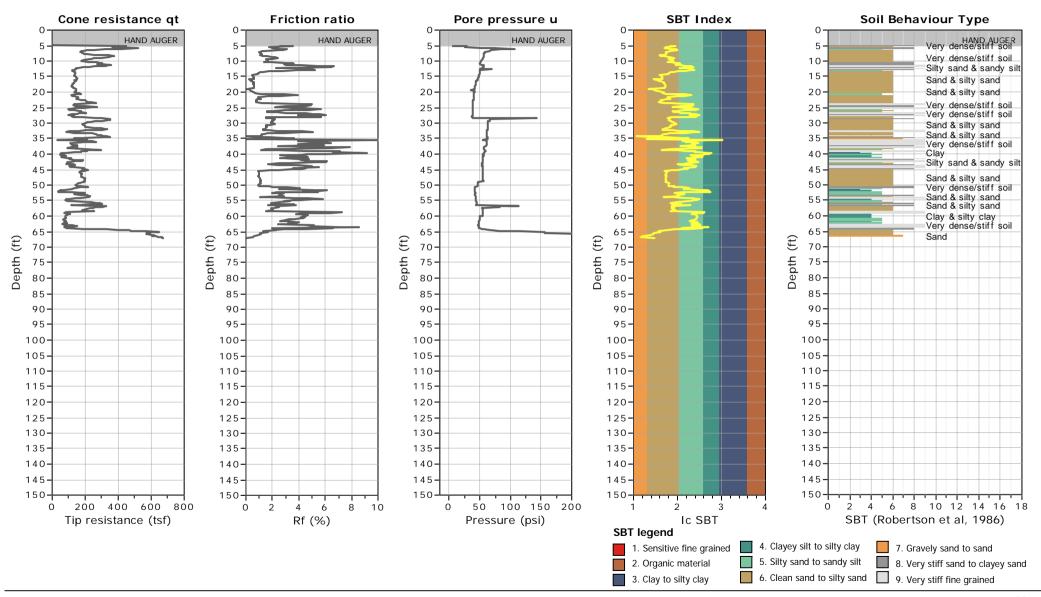


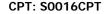
Location: Fresno, CA

Total depth: 67.26 ft Surface Elevation: 285.37 ft

Coords: X:6327476.00, Y:2152082.75

Cone Type: GDC-51
Cone Operator: A.Sancen





Total depth: 67.26 ft Surface Elevation: 285.37 ft

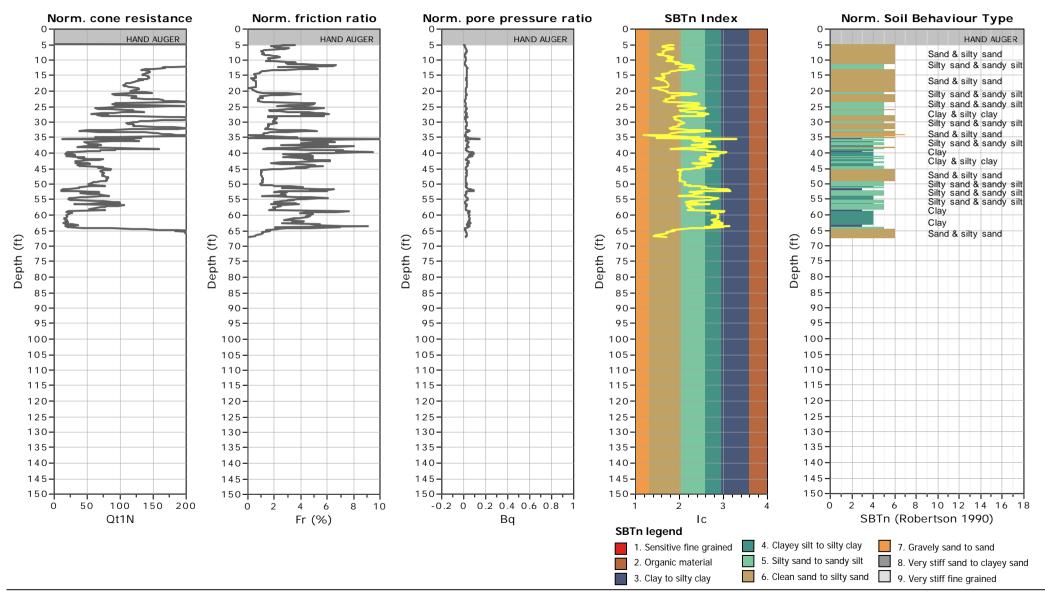
Coords: X:6327476.00, Y:2152082.75

Cone Type: GDC-51

Cone Operator: A.Sancen

Project: California High-Speed Train

Location: Fresno, CA





Total depth: 80.38 ft

Surface Elevation: 286.31 ft

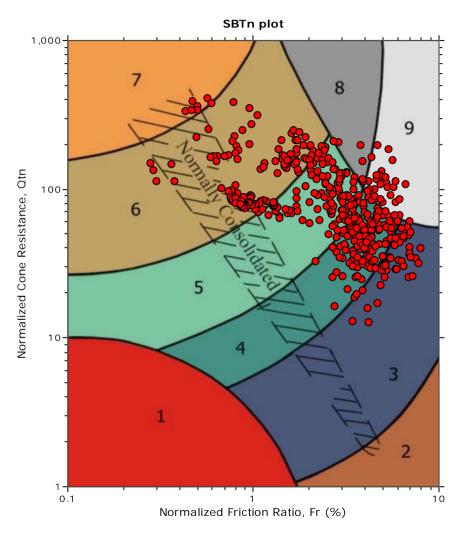
Coords: X:6327731.50, Y:2151787.00

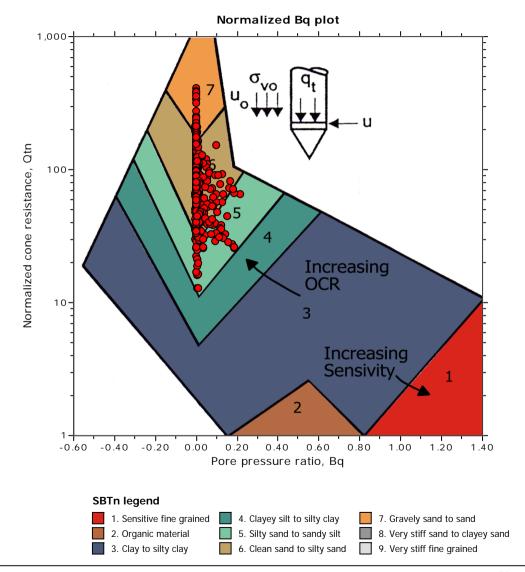
Cone Type: GDC-32
Cone Operator: J.Hancock

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Project: California High-Speed Train

Location: Fresno, CA







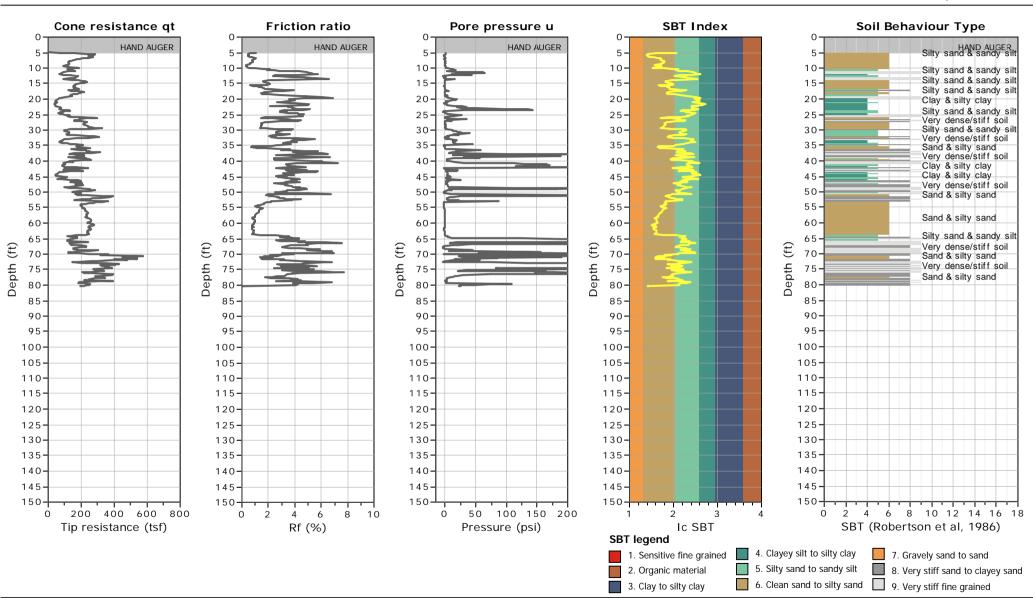
Project: California High-Speed Train

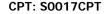
Location: Fresno, CA

Total depth: 80.38 ft Surface Elevation: 286.31 ft

Coords: X:6327731.50, Y:2151787.00

Cone Type: GDC-32
Cone Operator: J.Hancock





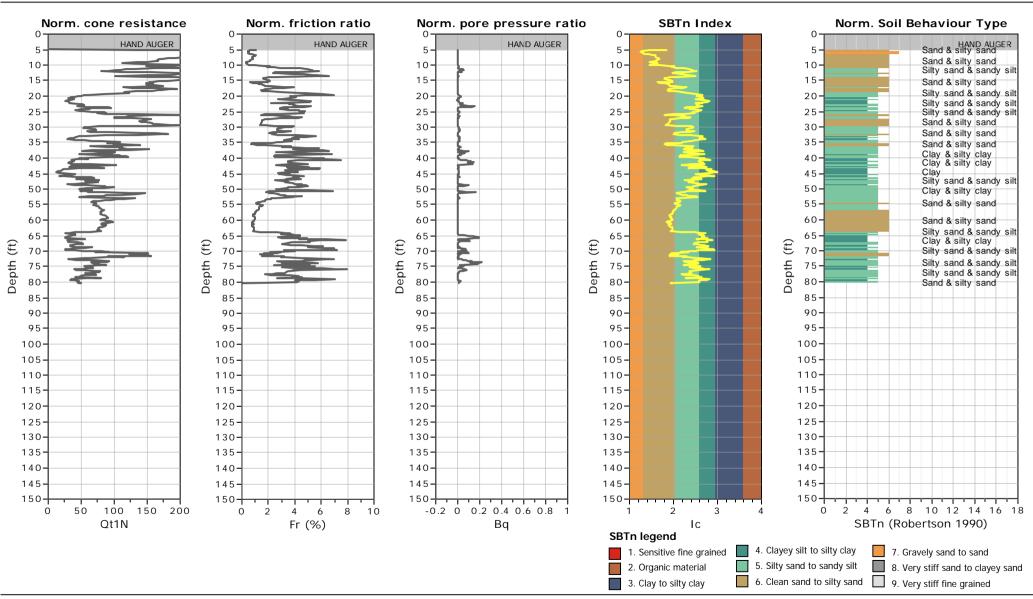
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 80.38 ft Surface Elevation: 286.31 ft

Coords: X:6327731.50, Y:2151787.00

Cone Type: GDC-32
Cone Operator: J.Hancock





Total depth: 80.38 ft

Surface Elevation: 285.99 ft

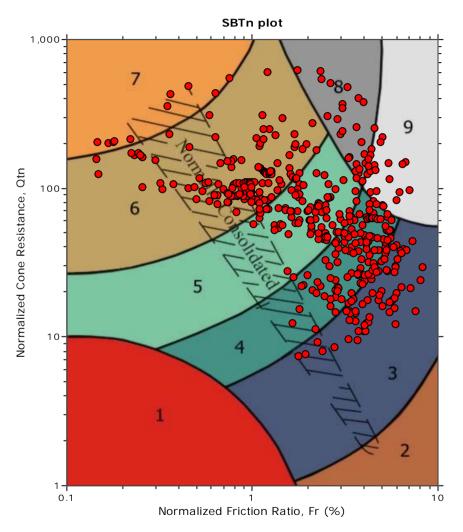
Coords: X:6328346.00, Y:2150921.75

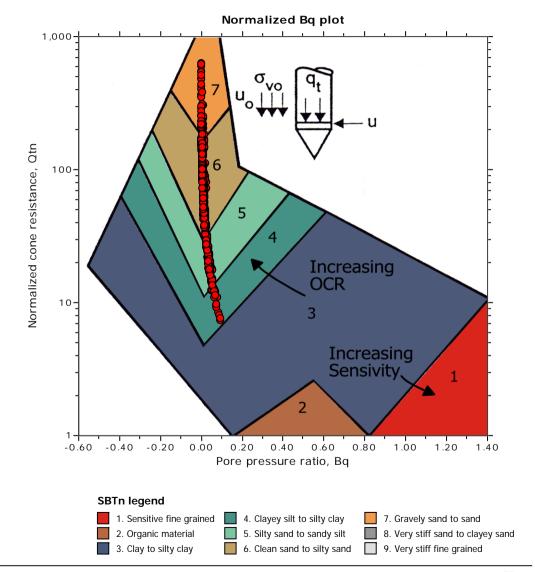
Cone Type: GDC-51
Cone Operator: A.Sancen

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Project: California High-Speed Train

Location: Fresno, CA







Cone Type: GDC-51



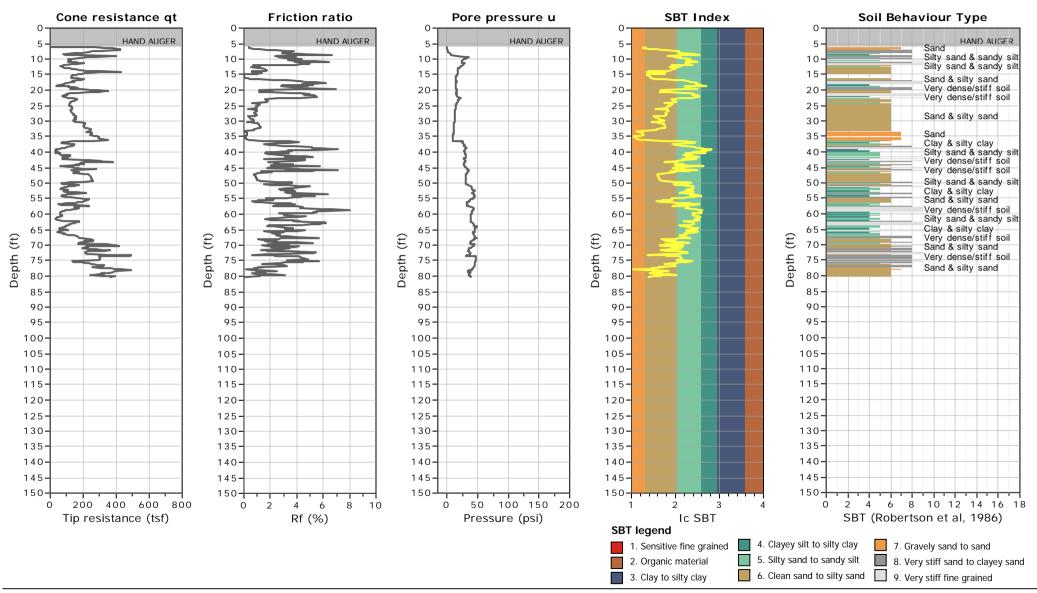
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 80.38 ft Surface Elevation: 285.99 ft

Coords: X:6328346.00, Y:2150921.75

Cone Operator: A.Sancen





Location: Fresno, CA

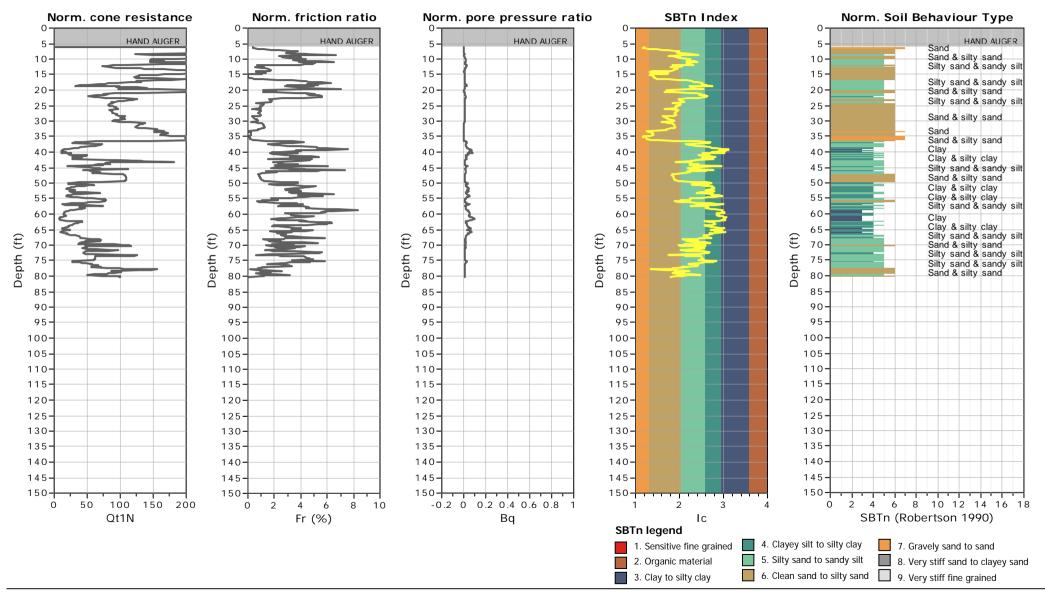
Surface Elevation: 285.99 ft

Coords: X:6328346.00, Y:2150921.75

Cone Type: GDC-51

Cone Operator: A.Sancen

Project: California High-Speed Train





Total depth: 81.53 ft

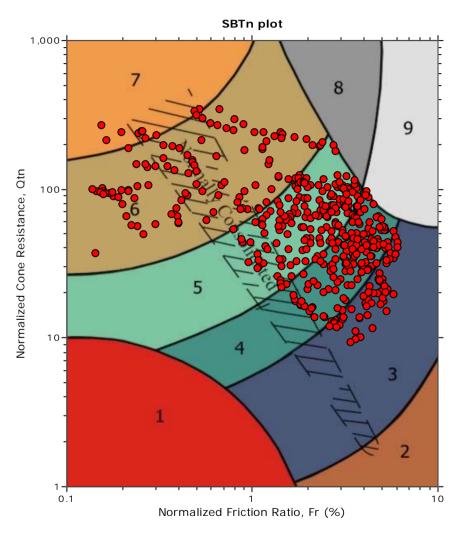
Surface Elevation: 289.11 ft Coords: X:6329493.00, Y:2150638.25

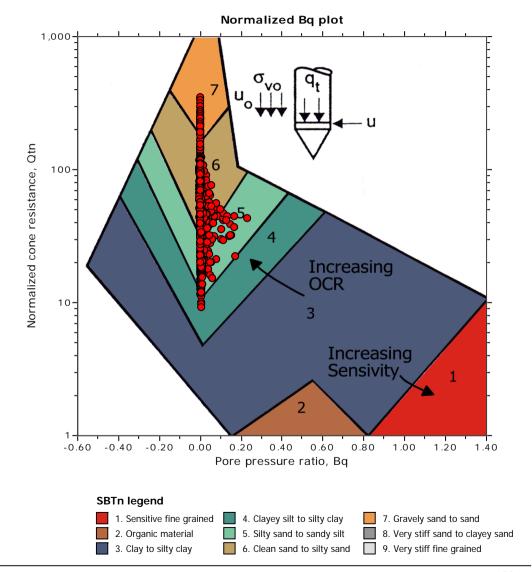
Cone Type: GDC-32 Cone Operator: J.Hancock

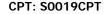
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Project: California High-Speed Train

Location: Fresno, CA







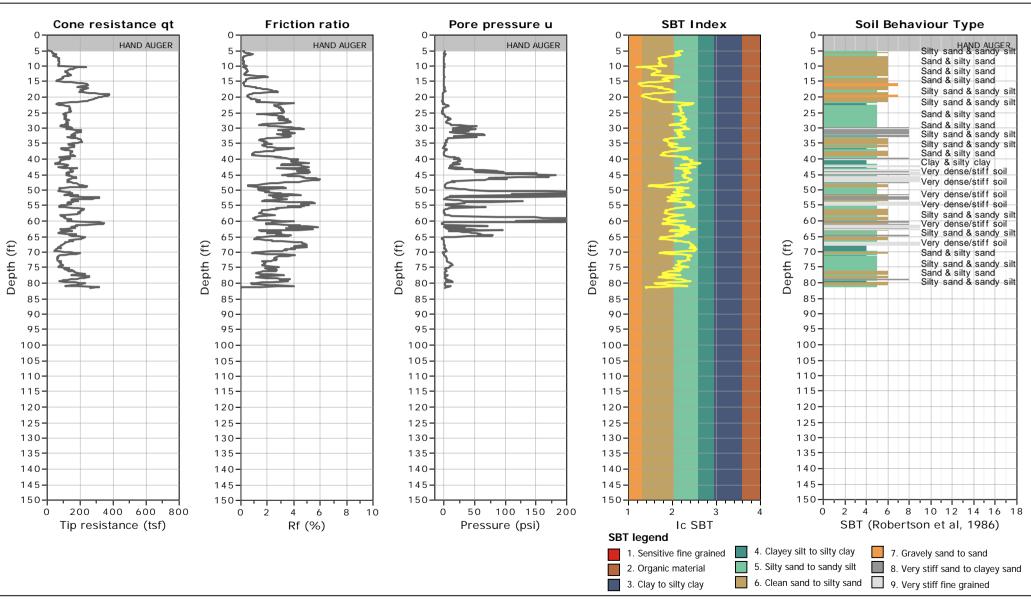
Project: California High-Speed Train

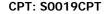
Location: Fresno, CA

Total depth: 81.53 ft Surface Elevation: 289.11 ft

Coords: X:6329493.00, Y:2150638.25

Cone Type: GDC-32 Cone Operator: J.Hancock





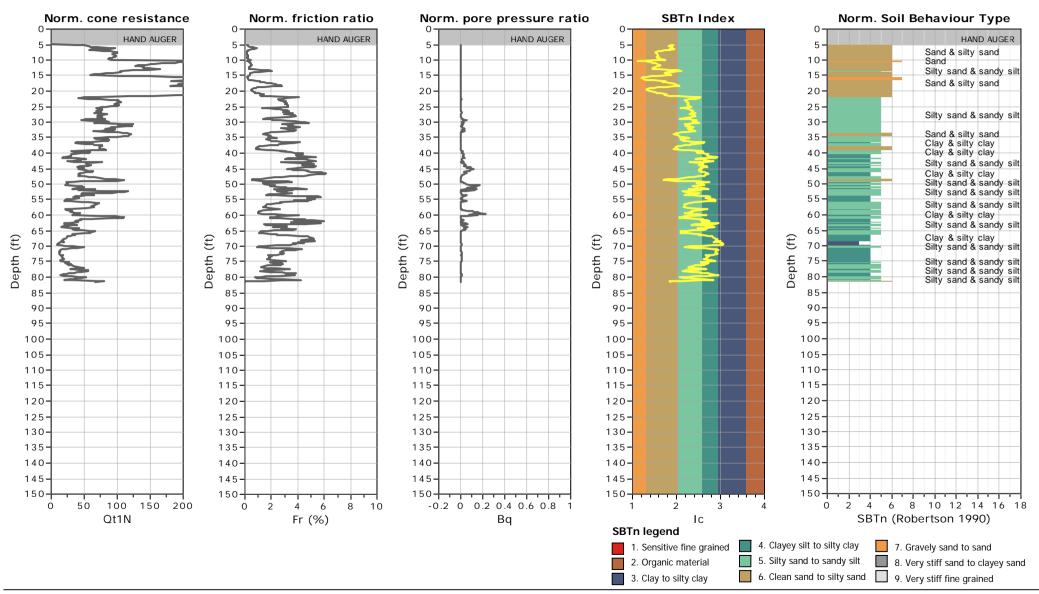
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 81.53 ft Surface Elevation: 289.11 ft

Coords: X:6329493.00, Y:2150638.25

Cone Type: GDC-32
Cone Operator: J.Hancock





Total depth: 80.05 ft

Surface Elevation: 288.96 ft

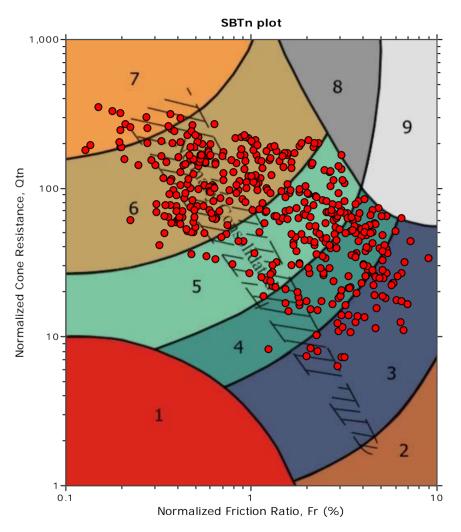
Coords: X:6329144.00, Y:2150348.75

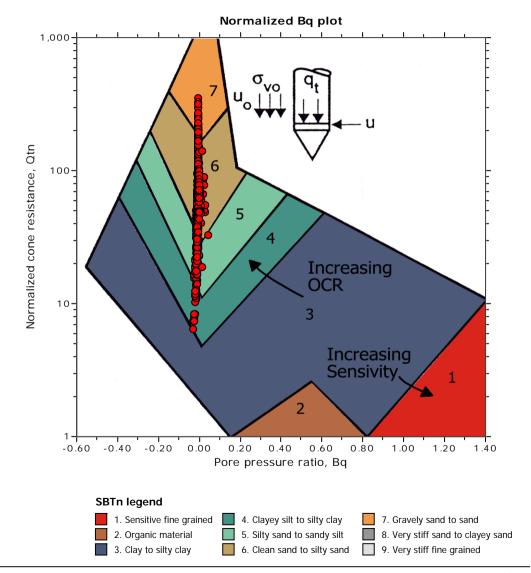
Cone Type: GDC-51
Cone Operator: A.Sancen

GEOLOGISMIKI Geotechnical Software

Project: California High-Speed Train

Location: Fresno, CA





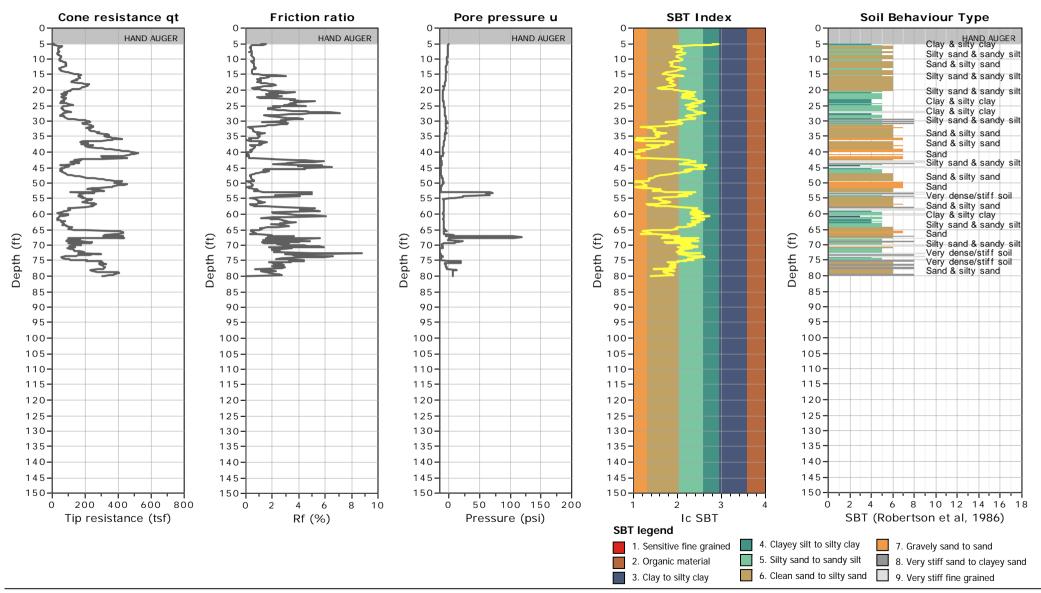




Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 288.96 ft

Coords: X:6329144.00, Y:2150348.75





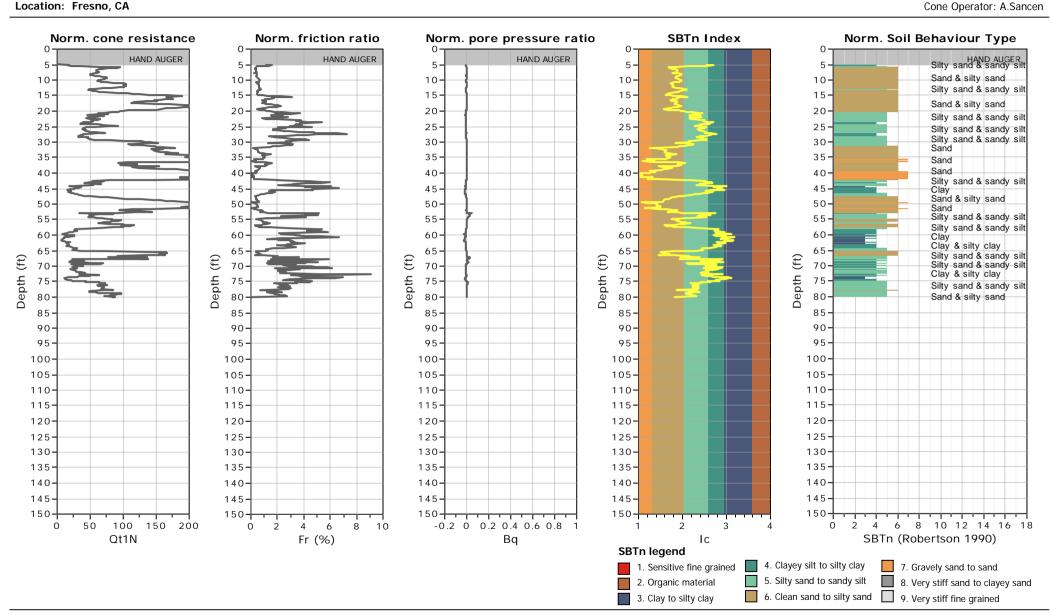
Geotechnical Software

Total depth: 80.05 ft Surface Elevation: 288.96 ft

Coords: X:6329144.00, Y:2150348.75

Cone Type: GDC-51

Project: California High-Speed Train Location: Fresno, CA





Total depth: 80.38 ft

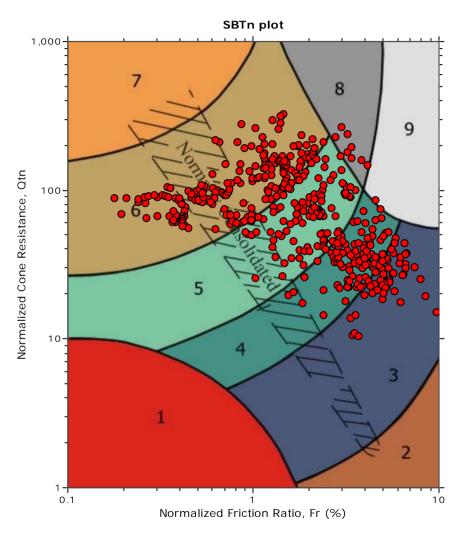
Surface Elevation: 292.55 ft

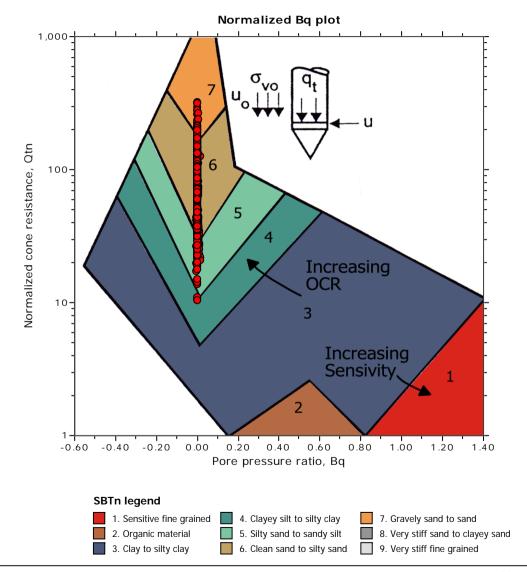
Coords: X:6330415.00, Y:2148901.75

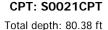
Cone Type: GDC-32
Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA







Surface Elevation: 292.55 ft

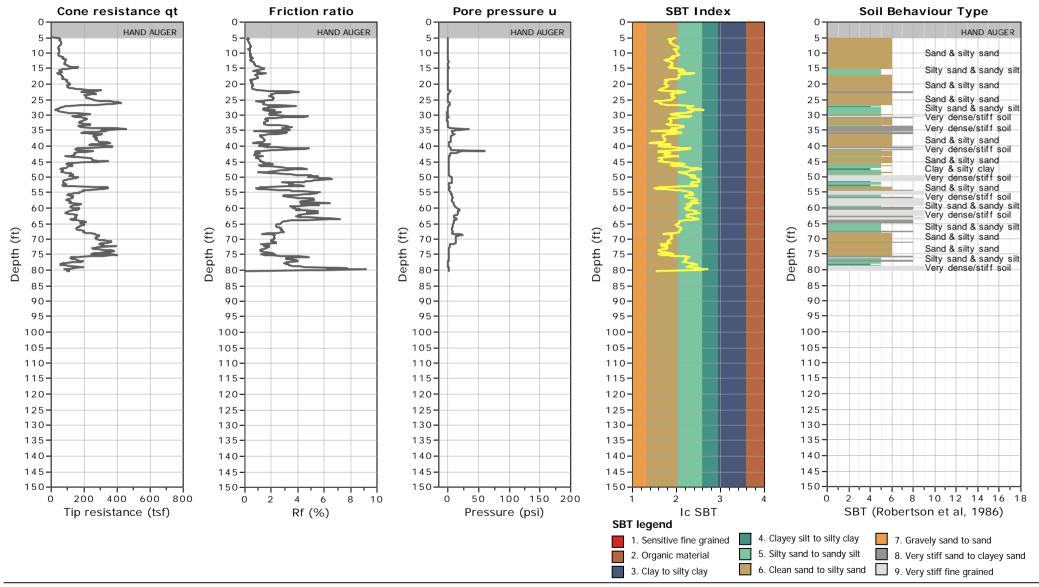
GEOLOGISMIKI Geotechnical Software

Coords: X:6330415.00, Y:2148901.75

Project: California High-Speed Train

Cone Type: GDC-32

Project:California High-Speed TrainCone Type: GDC-32Location:Fresno, CACone Operator: J.Hancock





Total depth: 80.38 ft Surface Elevation: 292.55 ft

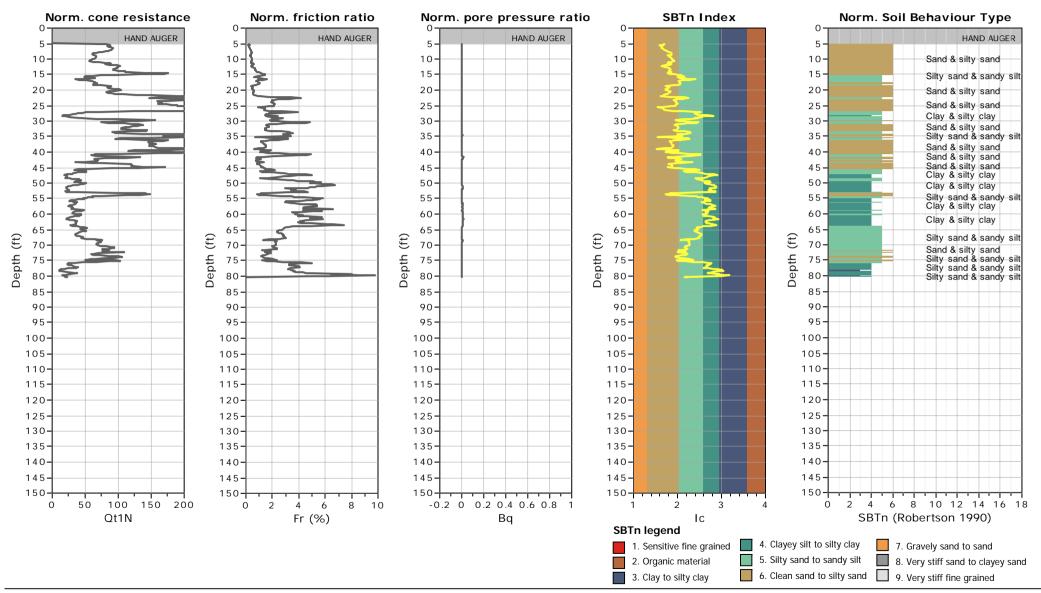
Coords: X:6330415.00, Y:2148901.75

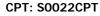
Cone Type: GDC-32

Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA





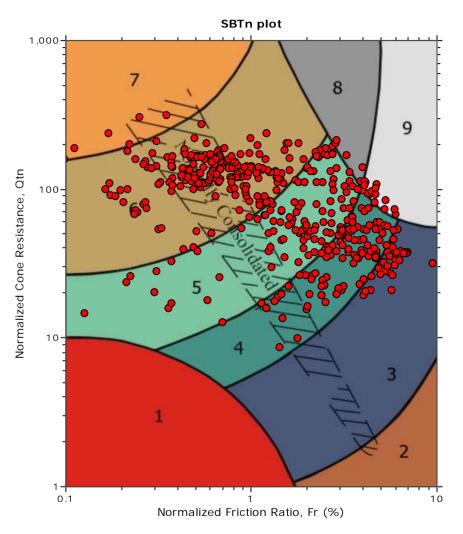
Project: California High-Speed Train

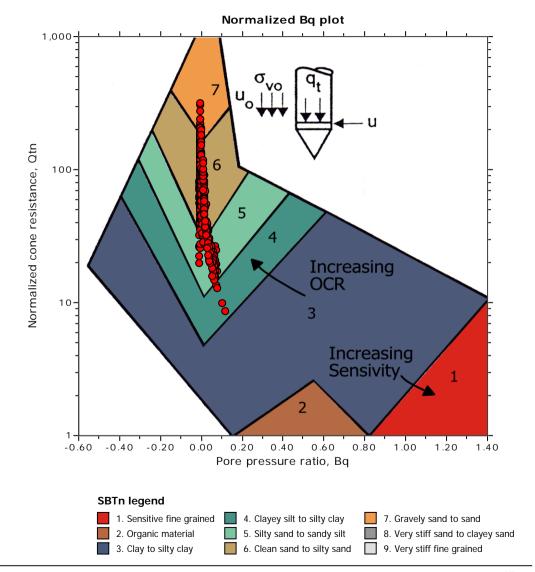
Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 293.04 ft

Coords: X:6330712.00, Y:2149159.25

Cone Type: GDC-51
Cone Operator: A.Sancen





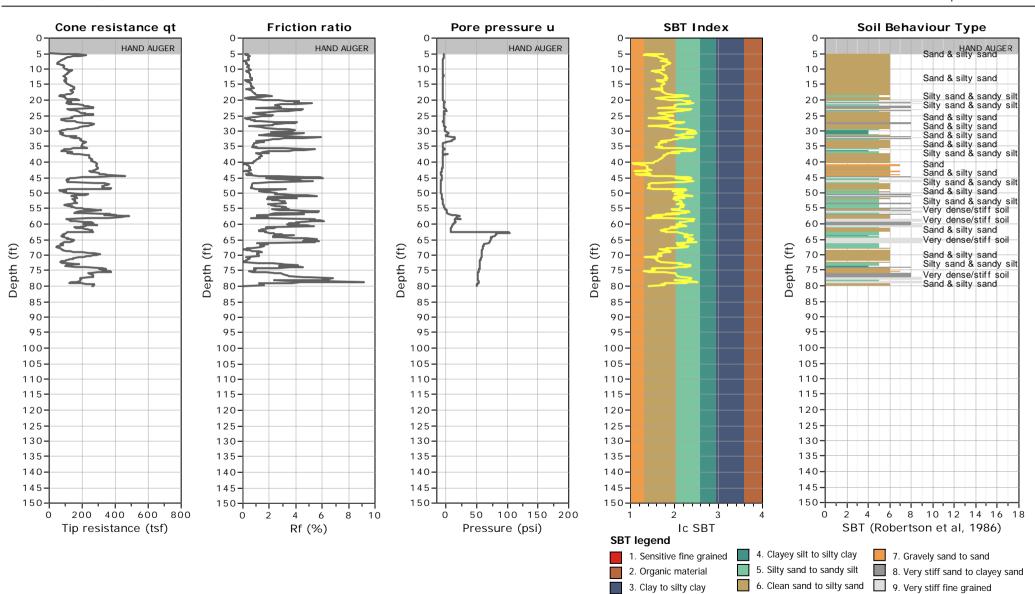




Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 293.04 ft

Coords: X:6330712.00, Y:2149159.25





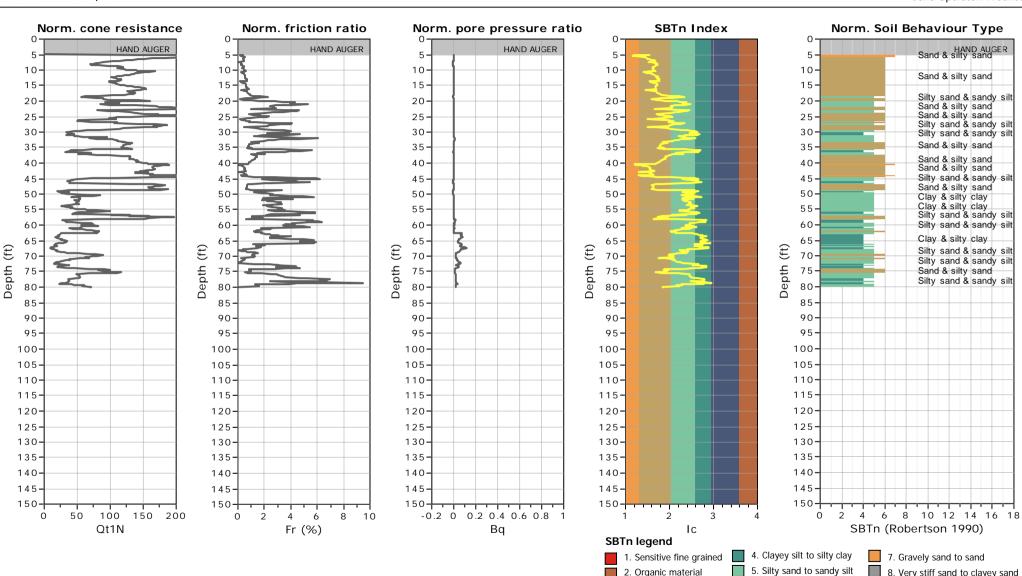


Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 293.04 ft

Coords: X:6330712.00, Y:2149159.25

Cone Type: GDC-51 Cone Operator: A.Sancen

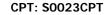


2. Organic material

3. Clay to silty clay

8. Very stiff sand to clayey sand

6. Clean sand to silty sand 9. Very stiff fine grained



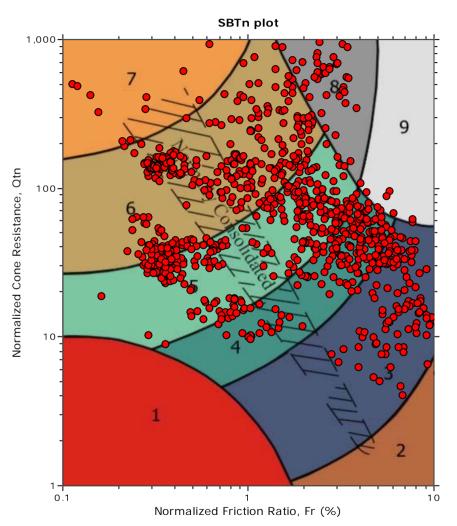
Project: California High-Speed Train

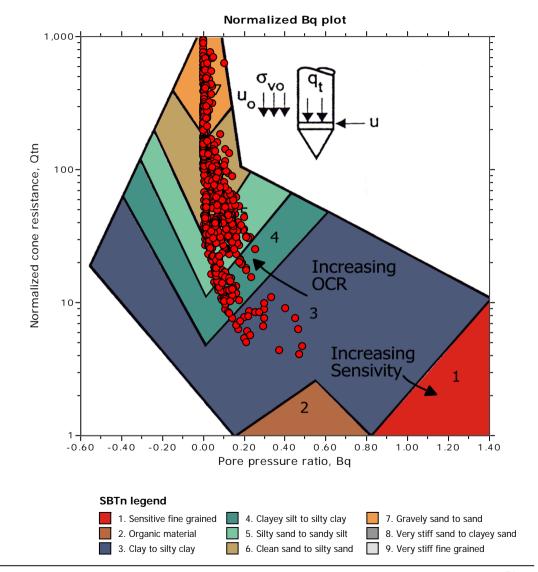
Location: Fresno, CA

Total depth: 150.59 ft Surface Elevation: 284.97 ft

Coords: X:6331231.00, Y:2147685.75

Cone Type: GDC-32
Cone Operator: J.Hancock







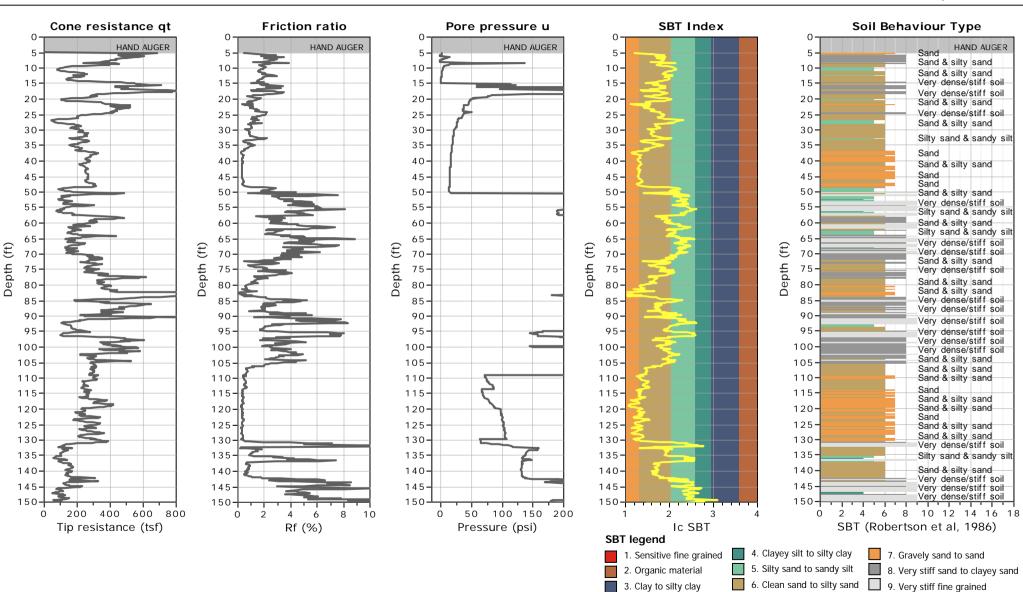
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 150.59 ft Surface Elevation: 284.97 ft

Coords: X:6331231.00, Y:2147685.75

Cone Type: GDC-32 Cone Operator: J.Hancock





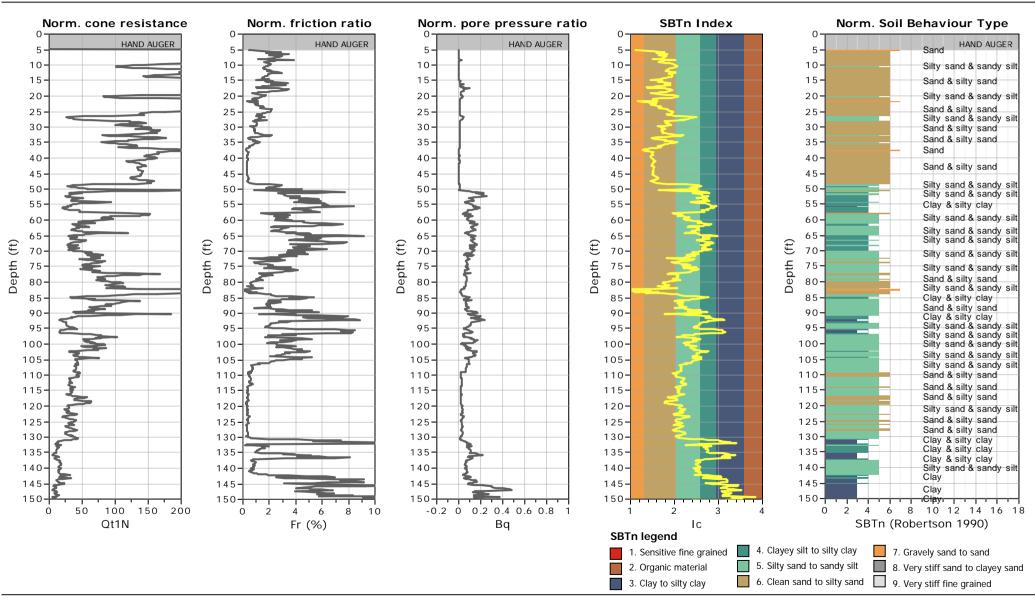


Location: Fresno, CA

Total depth: 150.59 ft Surface Elevation: 284.97 ft

Coords: X:6331231.00, Y:2147685.75

Cone Type: GDC-32 Cone Operator: J.Hancock





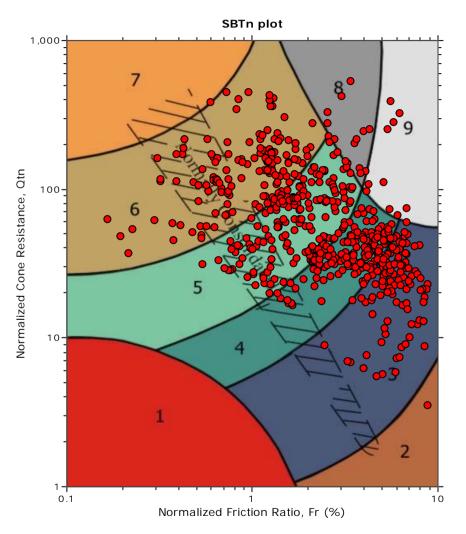
Project: California High-Speed Train

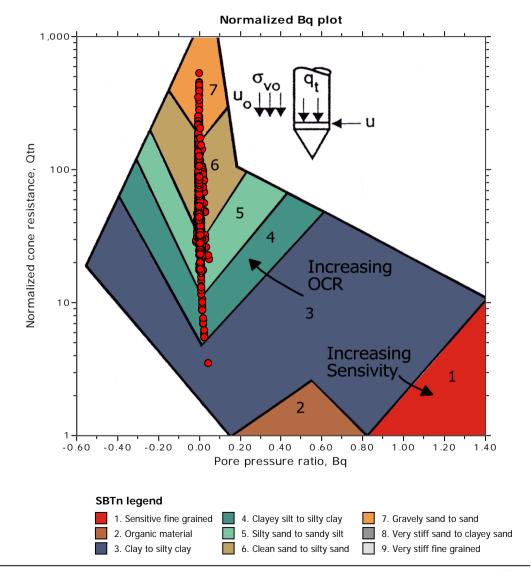
Location: Fresno, CA

Total depth: 103.84 ft Surface Elevation: 285.13 ft

Coords: X:6331888.50, Y:2146941.75

Cone Type: GDC-51
Cone Operator: A.Sancen





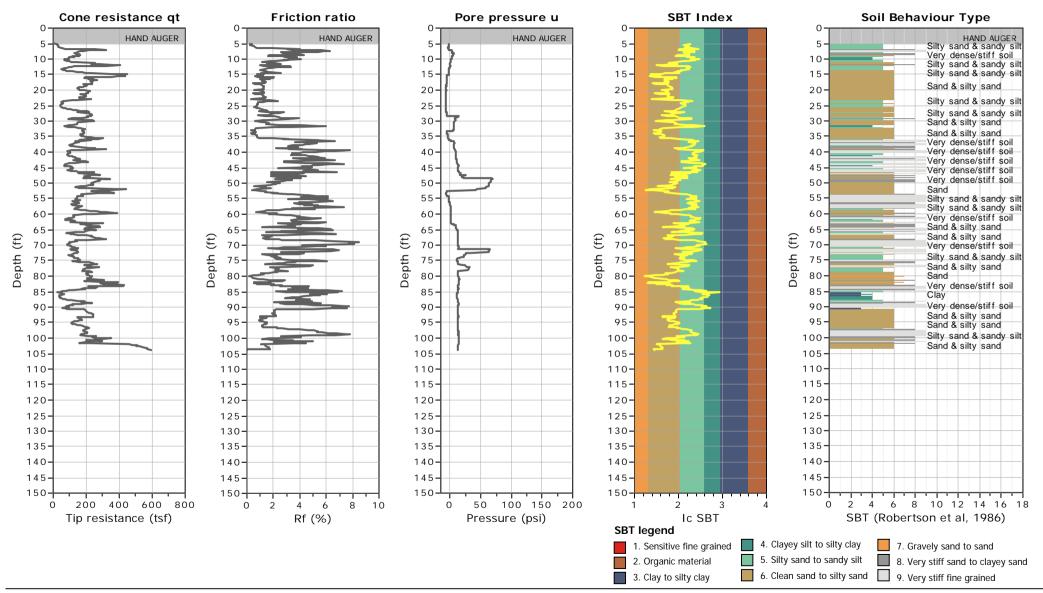




Location: Fresno, CA

Total depth: 103.84 ft Surface Elevation: 285.13 ft

Coords: X:6331888.50, Y:2146941.75



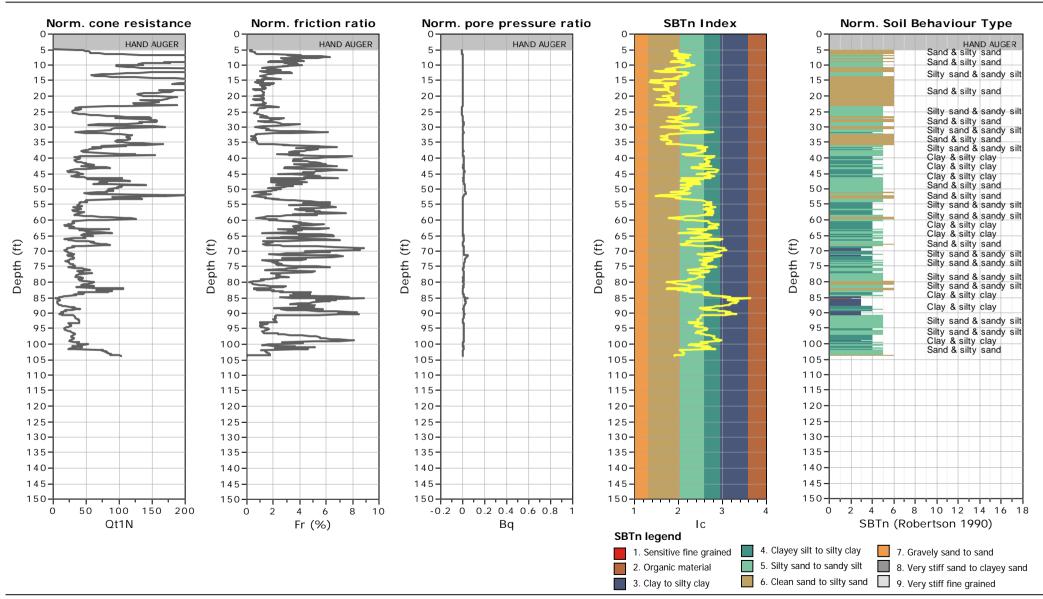




Location: Fresno, CA

Total depth: 103.84 ft Surface Elevation: 285.13 ft

Coords: X:6331888.50, Y:2146941.75





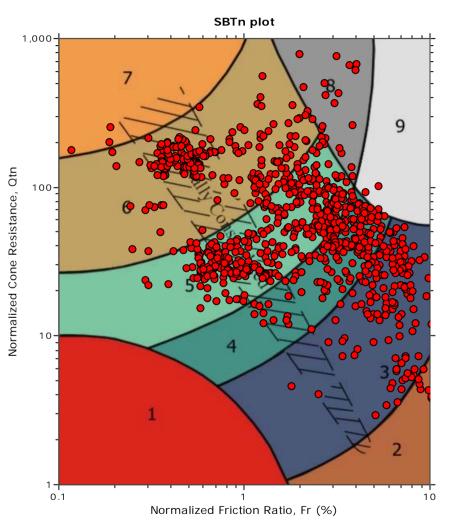
Project: California High-Speed Train

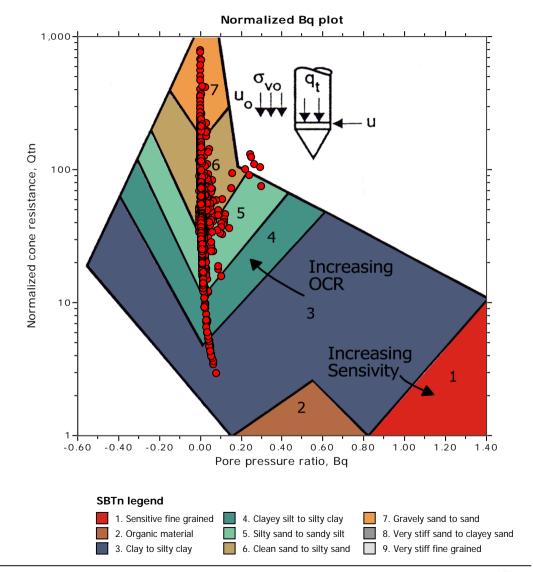
Location: Fresno, CA

Total depth: 150.59 ft Surface Elevation: 284.71 ft

Coords: X:6331320.00, Y:2147581.50

Cone Type: GDC-32 Cone Operator: J.Hancock







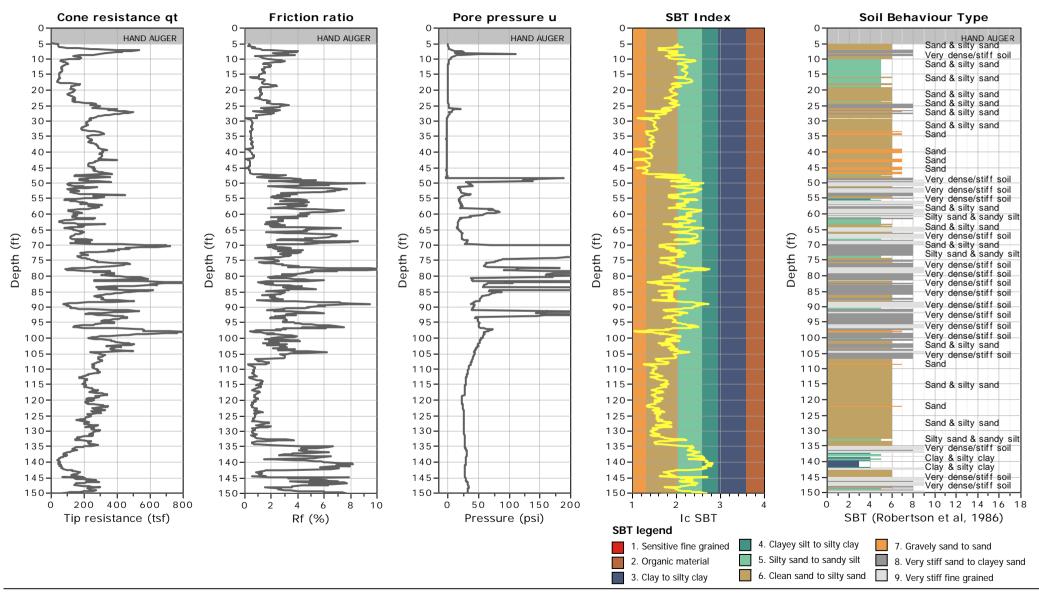


Location: Fresno, CA

Total depth: 150.59 ft Surface Elevation: 284.71 ft

Coords: X:6331320.00, Y:2147581.50

Cone Type: GDC-32 Cone Operator: J.Hancock





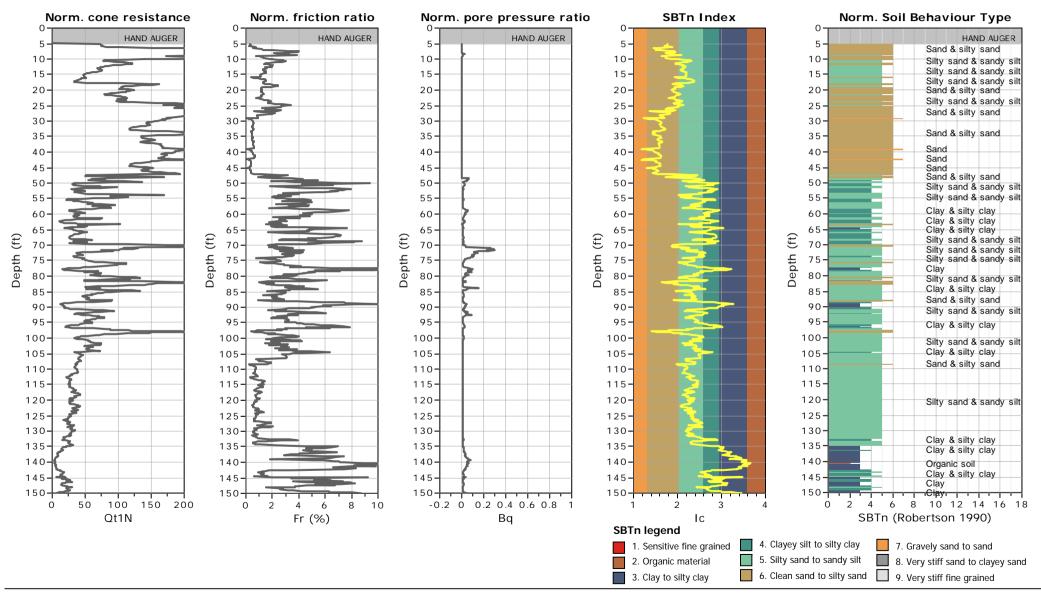


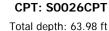
Location: Fresno, CA

Total depth: 150.59 ft Surface Elevation: 284.71 ft

Coords: X:6331320.00, Y:2147581.50

Cone Type: GDC-32 Cone Operator: J.Hancock



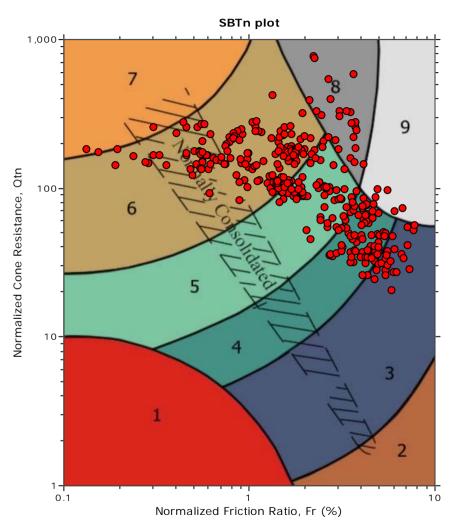


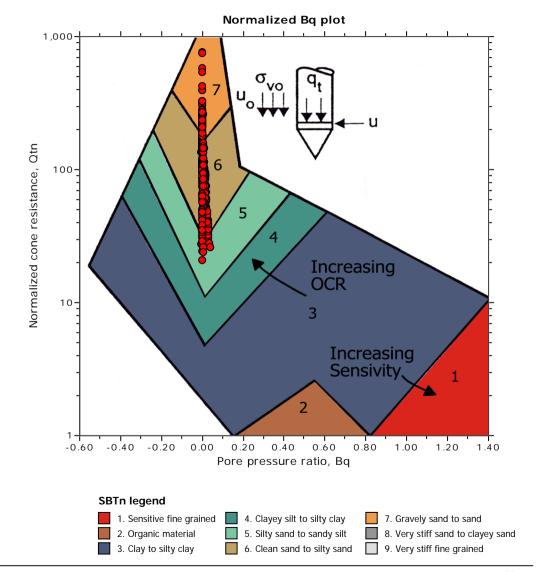
Surface Elevation: 283.79 ft

Coords: X:6333046.50, Y:2145957.75

Cone Type: GDC-51 Cone Operator: A.Sancen

Project: California High-Speed Train Location: Fresno, CA





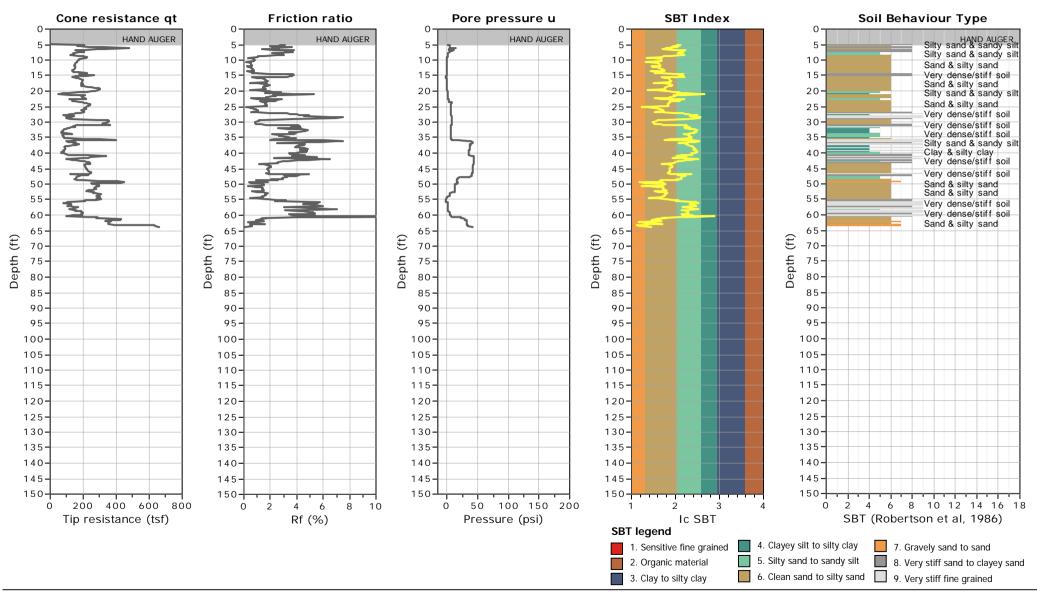




Location: Fresno, CA

Total depth: 63.98 ft Surface Elevation: 283.79 ft

Coords: X:6333046.50, Y:2145957.75





Total depth: 63.98 ft Surface Elevation: 283.79 ft

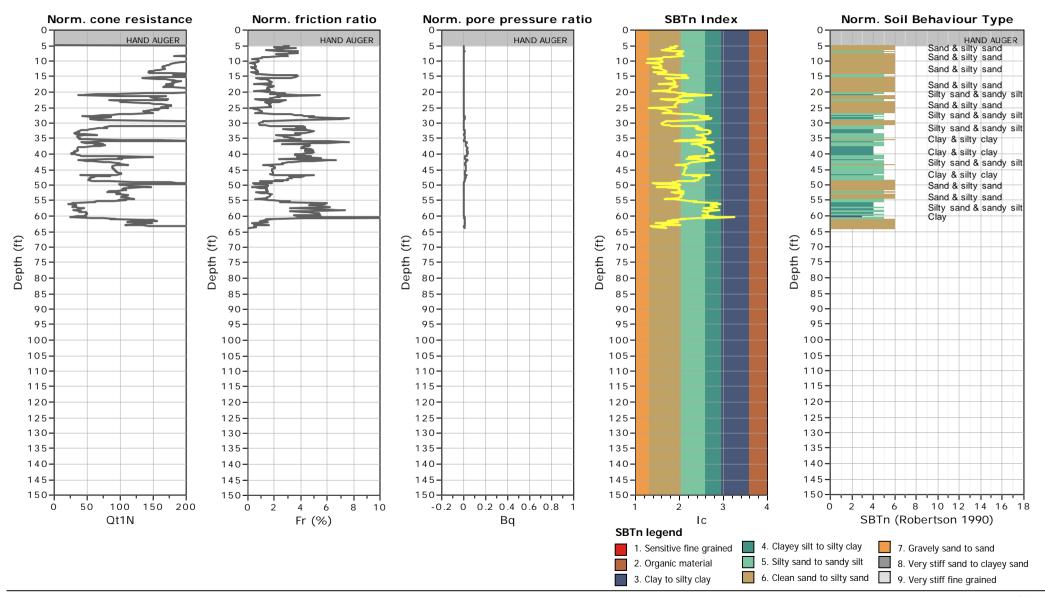
Coords: X:6333046.50, Y:2145957.75

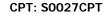
Cone Type: GDC-51

Cone Operator: A.Sancen

Project: California High-Speed Train

Location: Fresno, CA





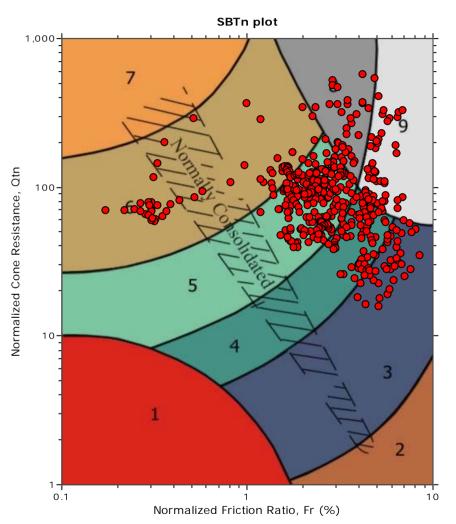


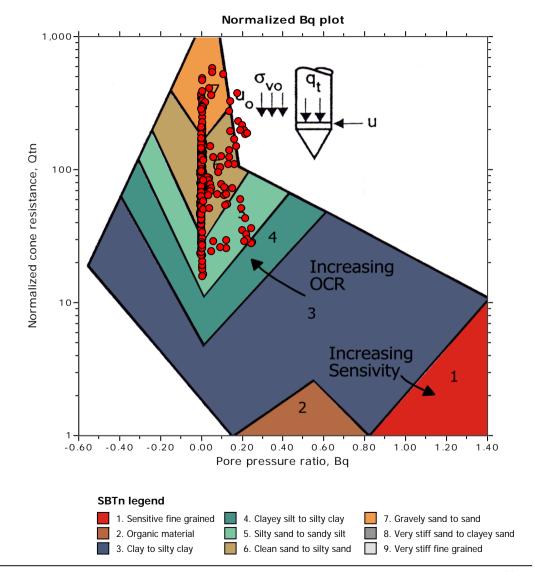
Location: Fresno, CA

Total depth: 80.38 ft

Surface Elevation: 286.63 ft Coords: X:6335169.00, Y:2144137.50

Cone Type: GDC-32 Cone Operator: J.Hancock







Geotechnical Software

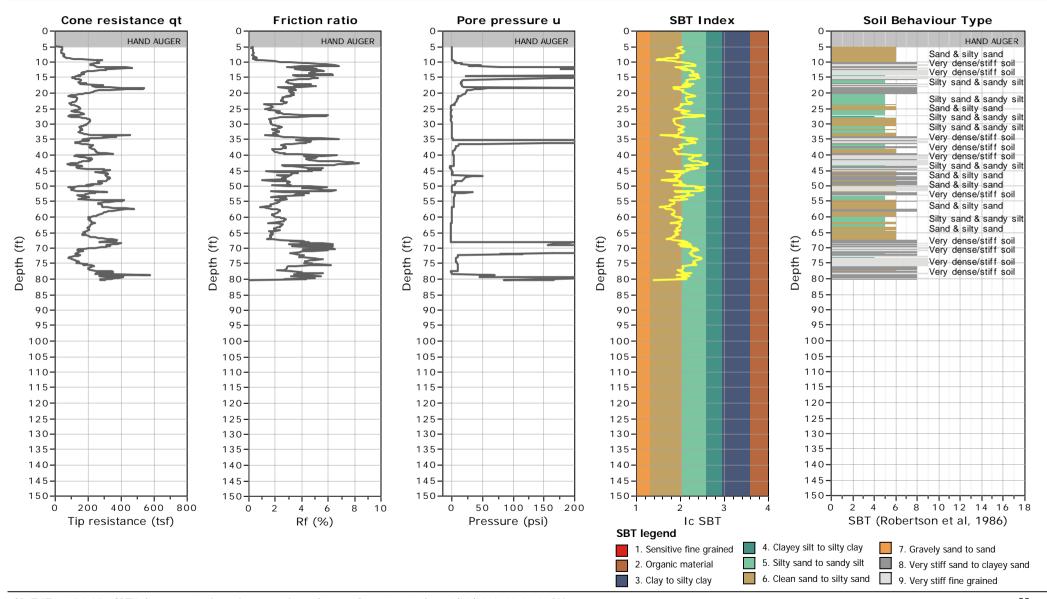
Total depth: 80.38 ft Surface Elevation: 286.63 ft

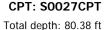
Coords: X:6335169.00, Y:2144137.50

Cone Type: GDC-32 Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA





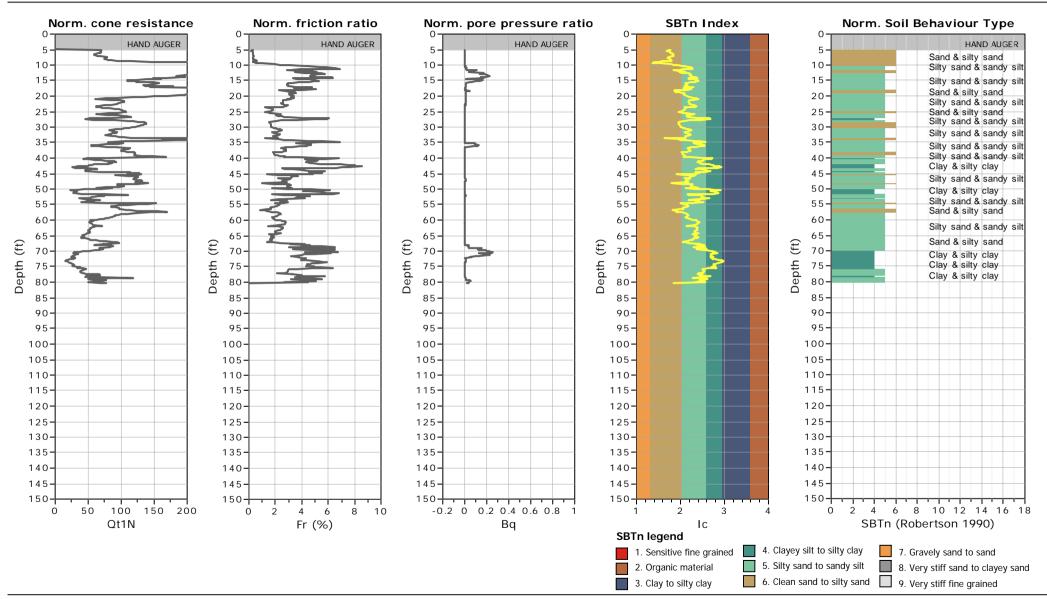
Surface Elevation: 286.63 ft

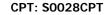
Coords: X:6335169.00, Y:2144137.50

Cone Type: GDC-32 Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA





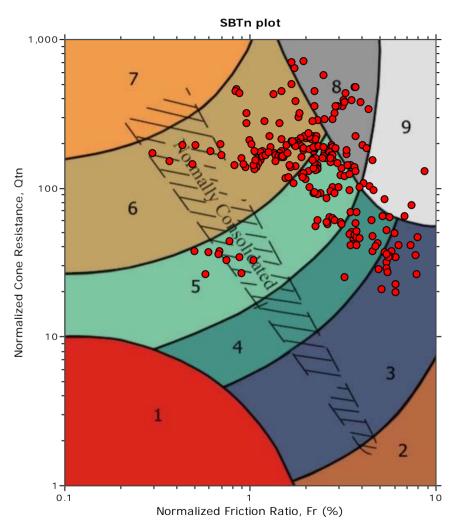


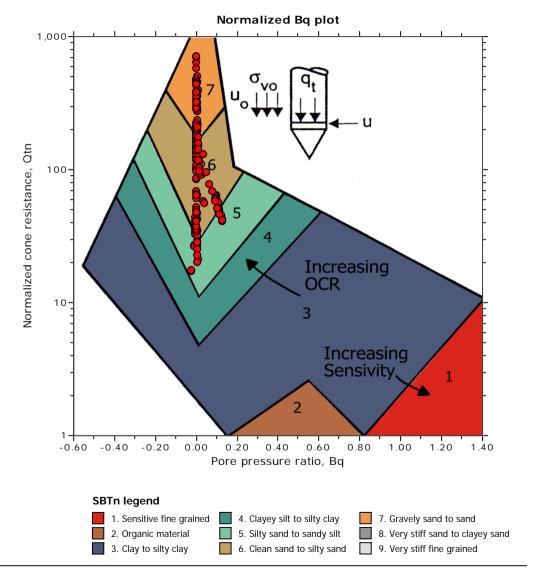
Location: Fresno, CA

Total depth: 45.11 ft Surface Elevation: 286.81 ft

Coords: X:6336999.50, Y:2141437.00

Cone Type: GDC-51
Cone Operator: A.Sancen







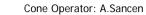


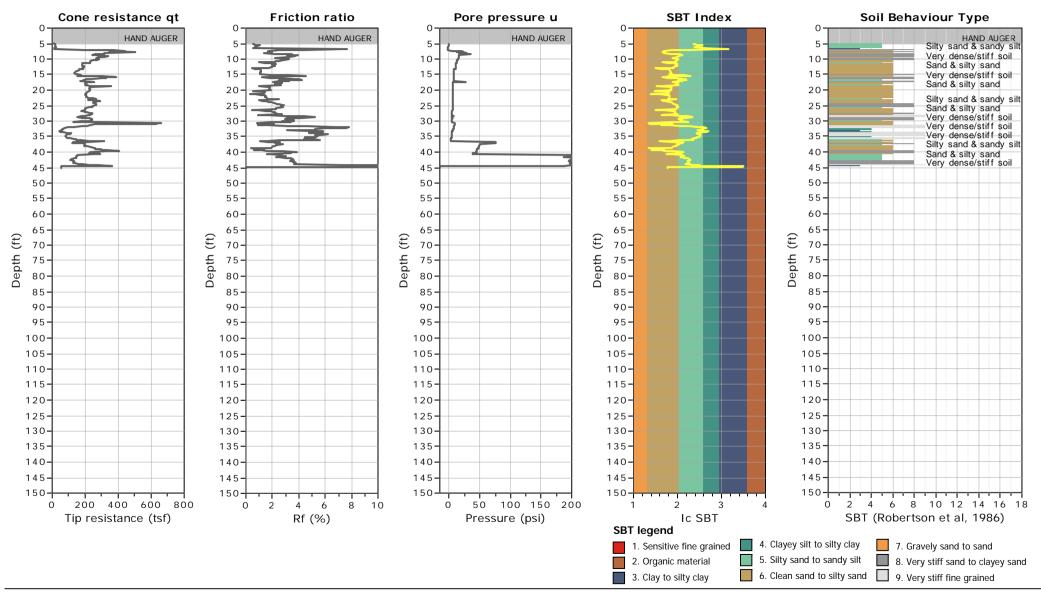
Location: Fresno, CA

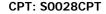
Total depth: 45.11 ft Surface Elevation: 286.81 ft

Coords: X:6336999.50, Y:2141437.00

Cone Type: GDC-51









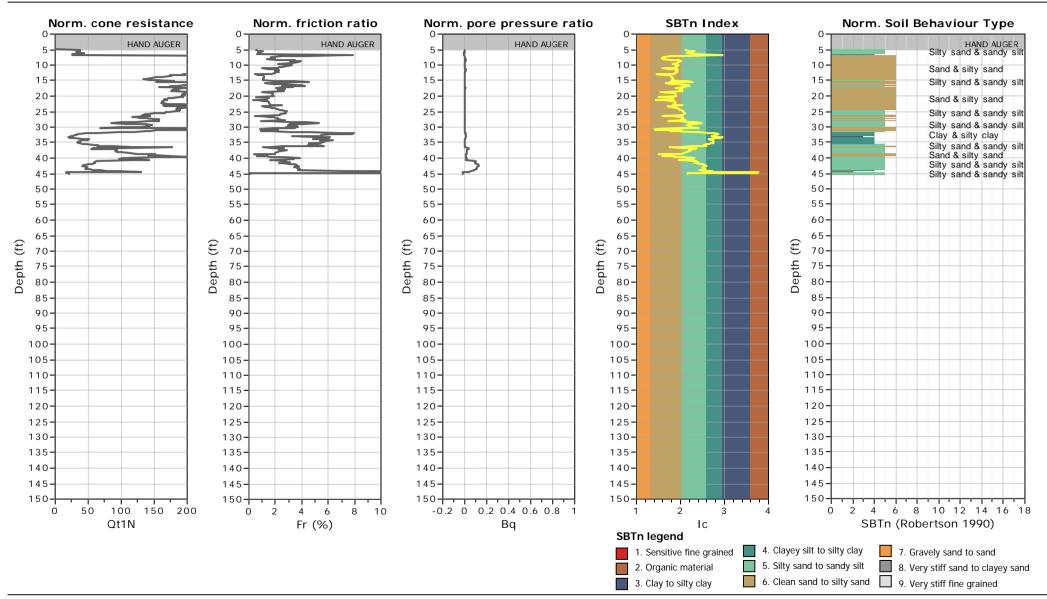
Location: Fresno, CA

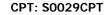
Total depth: 45.11 ft Surface Elevation: 286.81 ft

Coords: X:6336999.50, Y:2141437.00

Cone Type: GDC-51

Cone Operator: A.Sancen





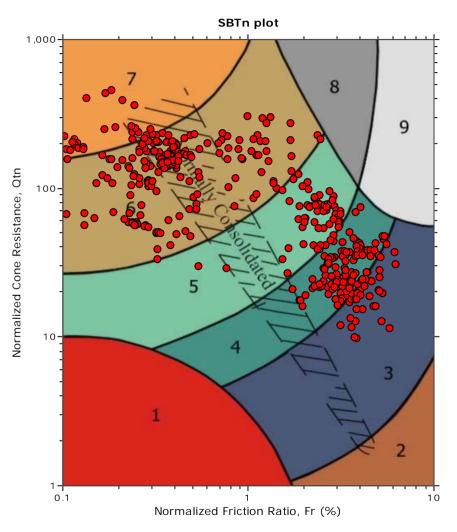


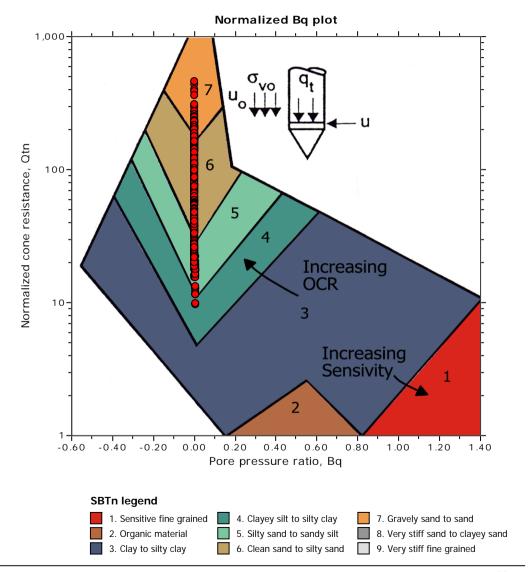
Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 287.88 ft

Coords: X:6337145.50, Y:2141271.50

Cone Type: GDC-51
Cone Operator: A.Sancen





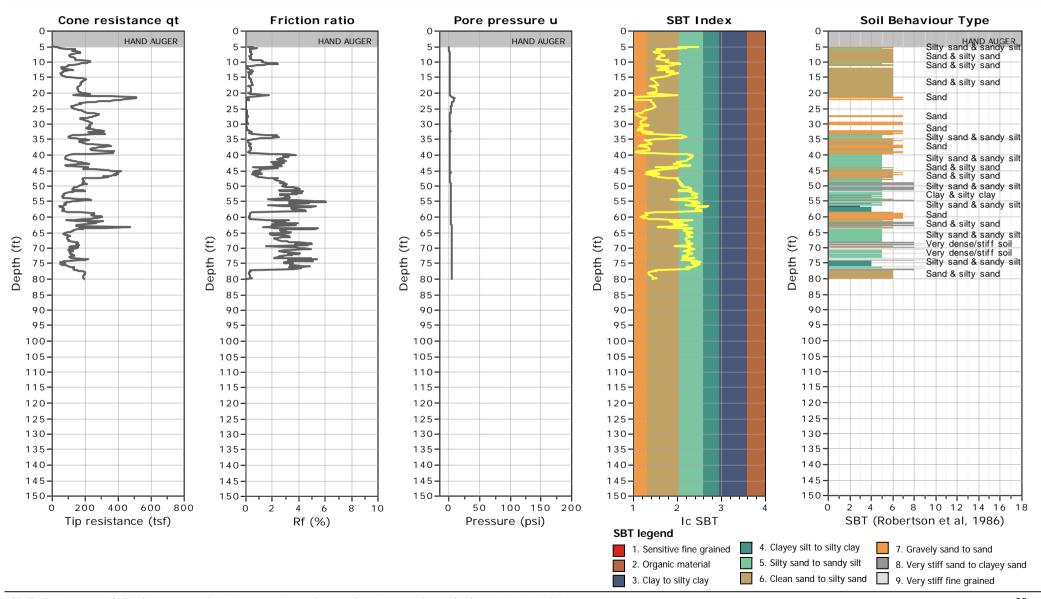




Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 287.88 ft

Coords: X:6337145.50, Y:2141271.50



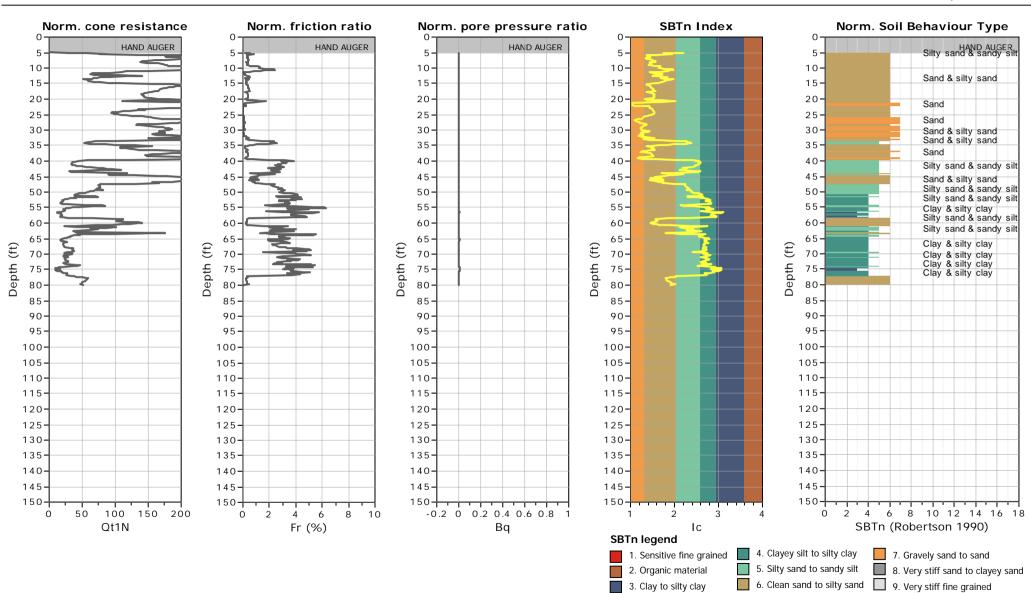


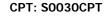


Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 287.88 ft

Coords: X:6337145.50, Y:2141271.50





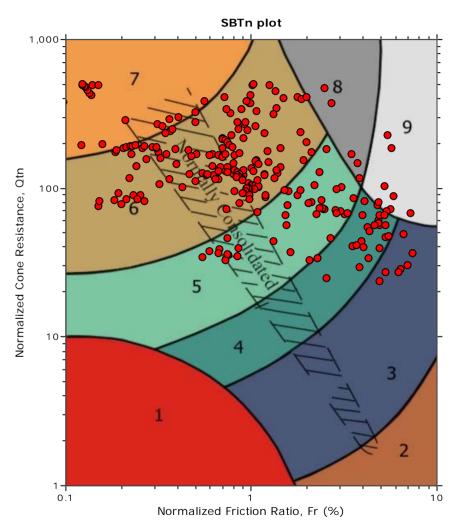


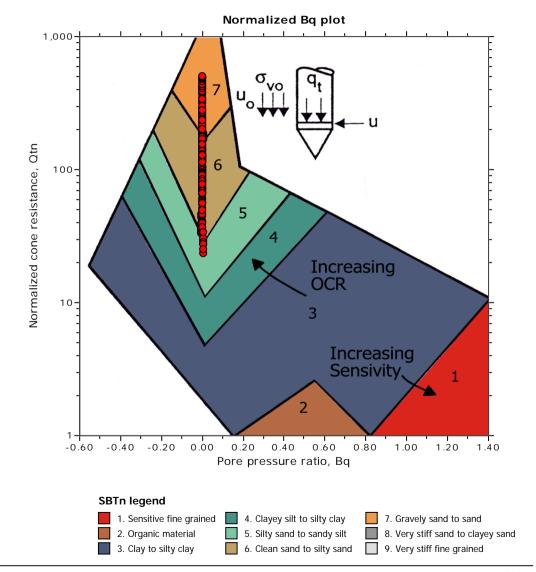
Location: Fresno, CA

Total depth: 64.14 ft Surface Elevation: 288.89 ft

Coords: X:6338690.00, Y:2138777.75

Cone Type: GDC-51
Cone Operator: A.Sancen





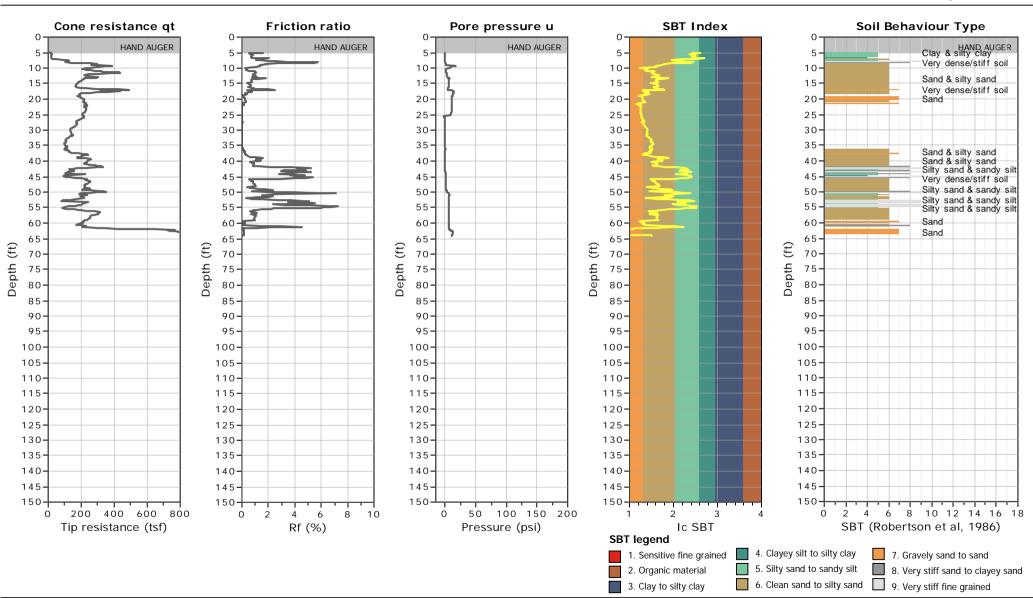


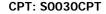


Location: Fresno, CA

Total depth: 64.14 ft Surface Elevation: 288.89 ft

Coords: X:6338690.00, Y:2138777.75







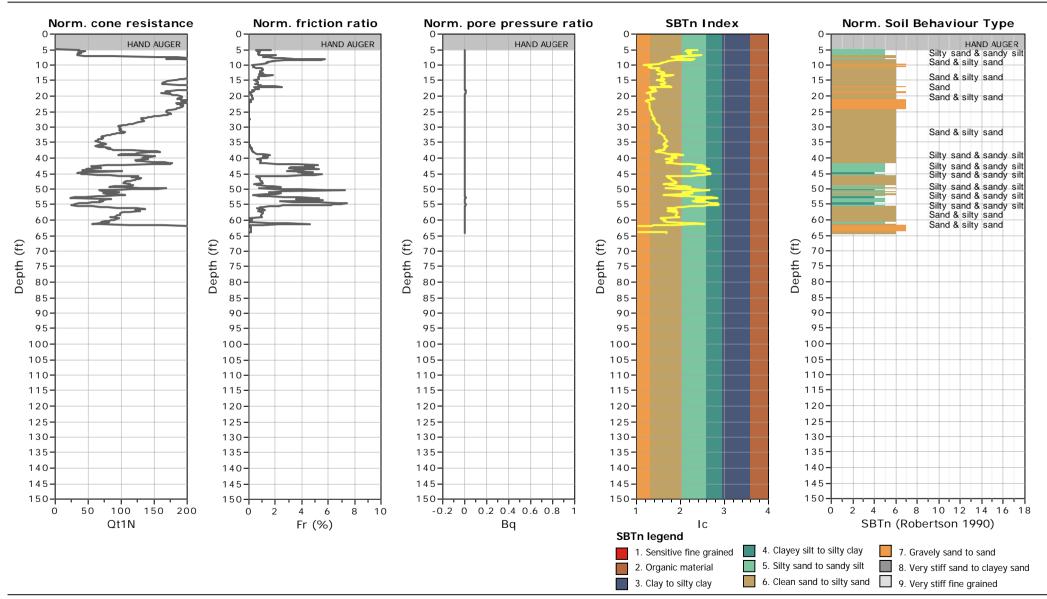
Location: Fresno, CA

Total depth: 64.14 ft Surface Elevation: 288.89 ft

Coords: X:6338690.00, Y:2138777.75

Cone Type: GDC-51

Cone Operator: A.Sancen





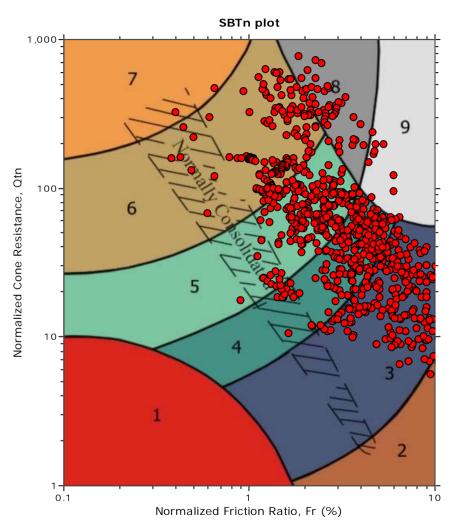
Project: California High-Speed Train

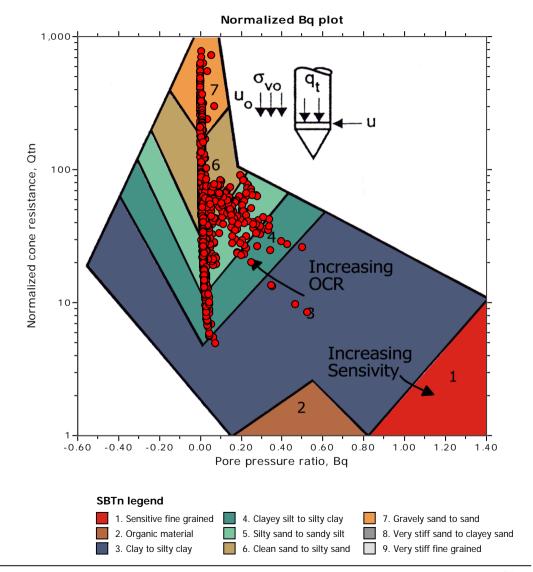
Location: Fresno, CA

Total depth: 150.43 ft Surface Elevation: 289.27 ft

Coords: X:6338936.00, Y:2138496.75

Cone Type: GDC-32 Cone Operator: J.Hancock





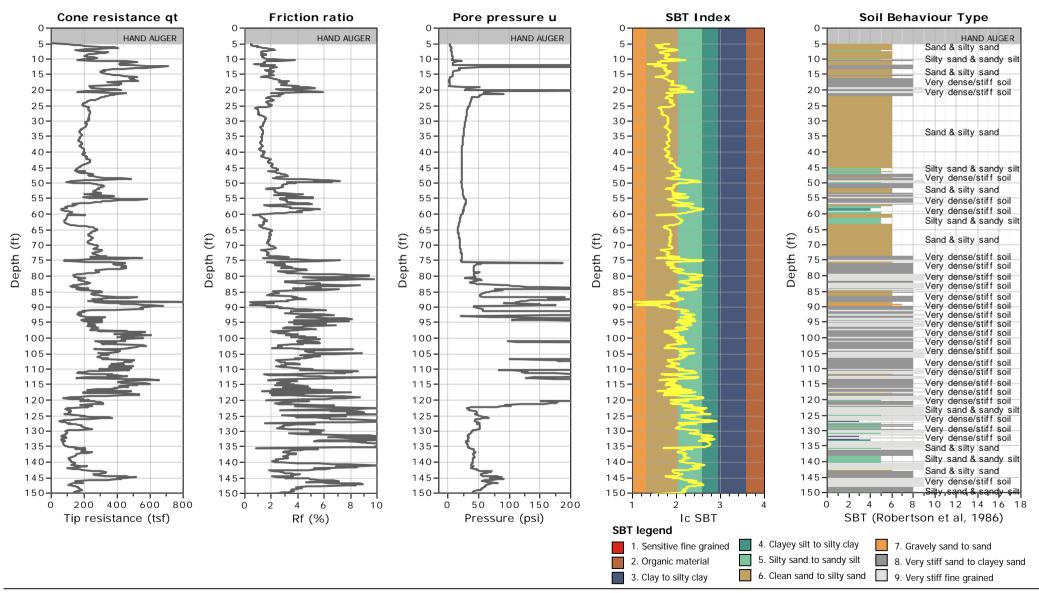




Location: Fresno, CA

Total depth: 150.43 ft Surface Elevation: 289.27 ft

Coords: X:6338936.00, Y:2138496.75



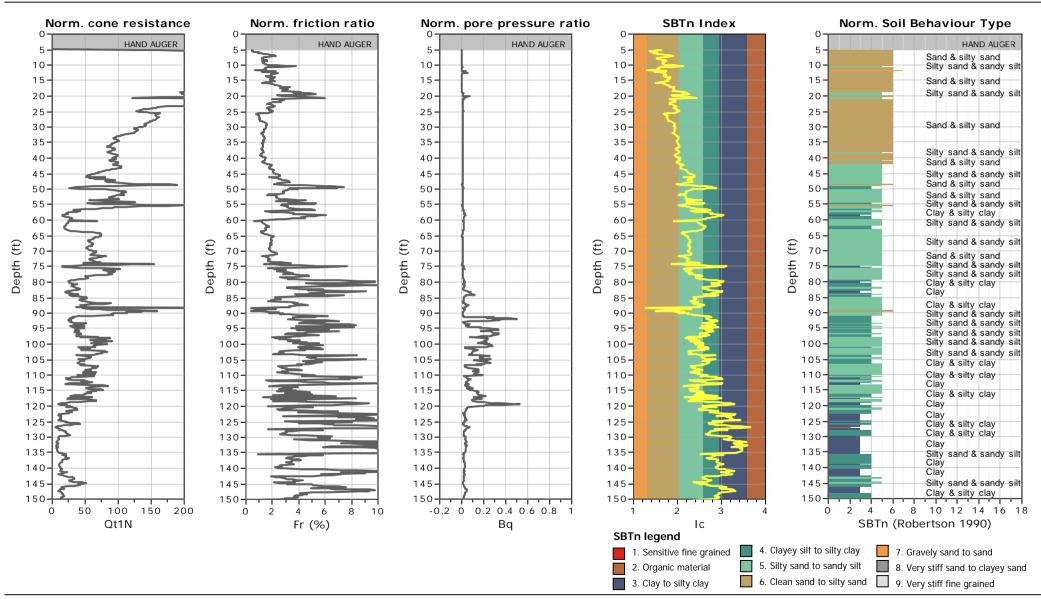




Location: Fresno, CA

Total depth: 150.43 ft Surface Elevation: 289.27 ft

Coords: X:6338936.00, Y:2138496.75





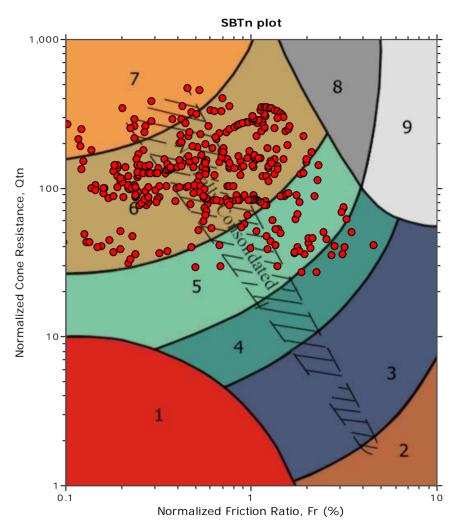


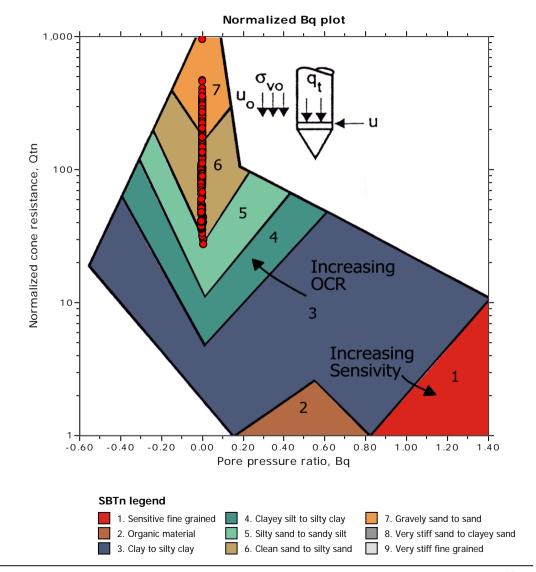
Location: Fresno, CA

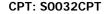
Total depth: 90.72 ft Surface Elevation: 290.12 ft

Coords: X:6339868.00, Y:2137996.50

Cone Type: GDC-51
Cone Operator: A.Sancen







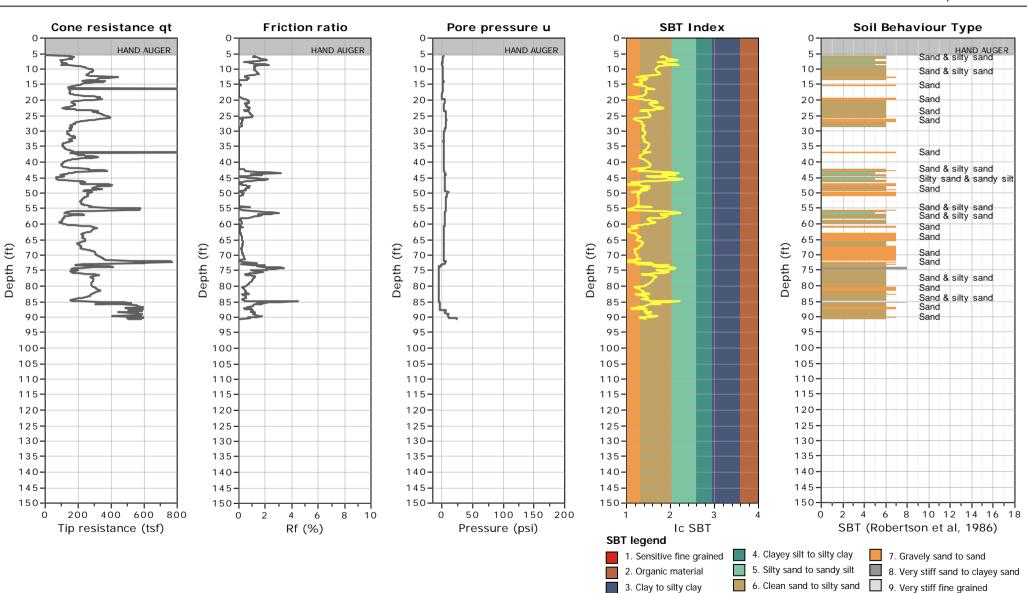


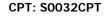
Location: Fresno, CA

Total depth: 90.72 ft Surface Elevation: 290.12 ft

Coords: X:6339868.00, Y:2137996.50

Cone Type: GDC-51
Cone Operator: A.Sancen





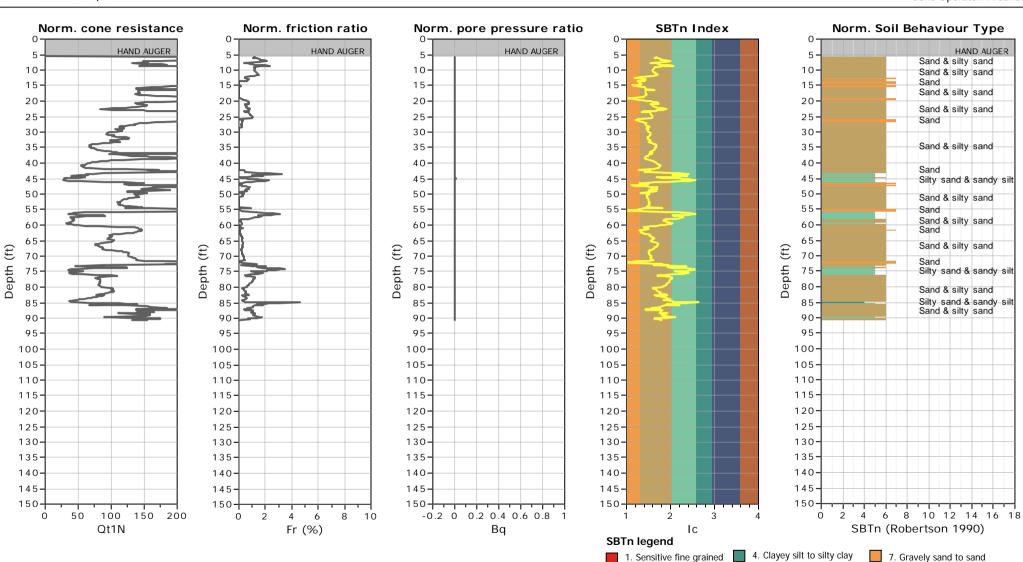


Location: Fresno, CA

Total depth: 90.72 ft Surface Elevation: 290.12 ft

Coords: X:6339868.00, Y:2137996.50

Cone Type: GDC-51
Cone Operator: A.Sancen



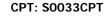
8. Very stiff sand to clayey sand

5. Silty sand to sandy silt

6. Clean sand to silty sand 9. Very stiff fine grained

2. Organic material

3. Clay to silty clay



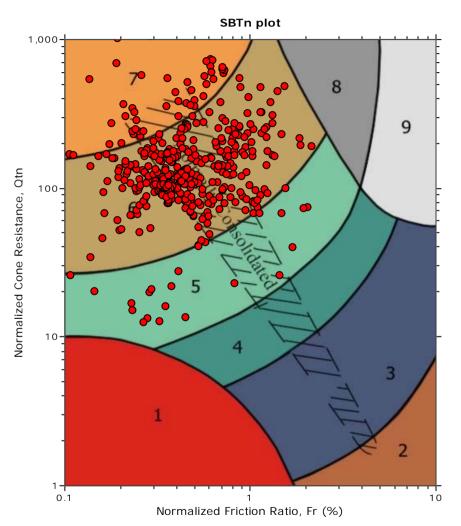


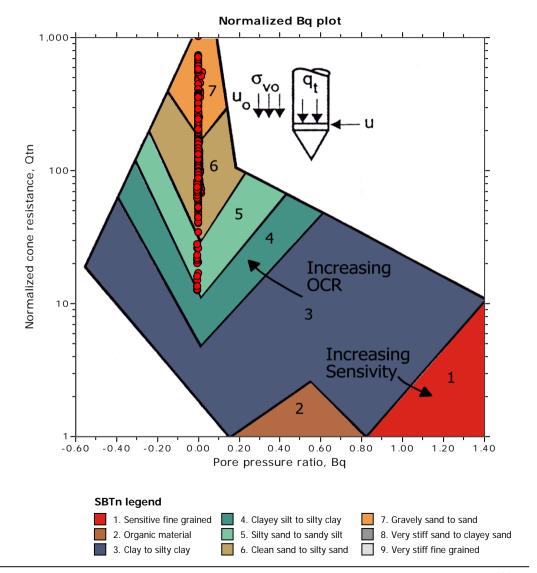
Location: Fresno, CA

Total depth: 75.13 ft Surface Elevation: 290.53 ft

Coords: X:6340055.50, Y:2136102.75

Cone Type: GDC-32 Cone Operator: J.Hancock





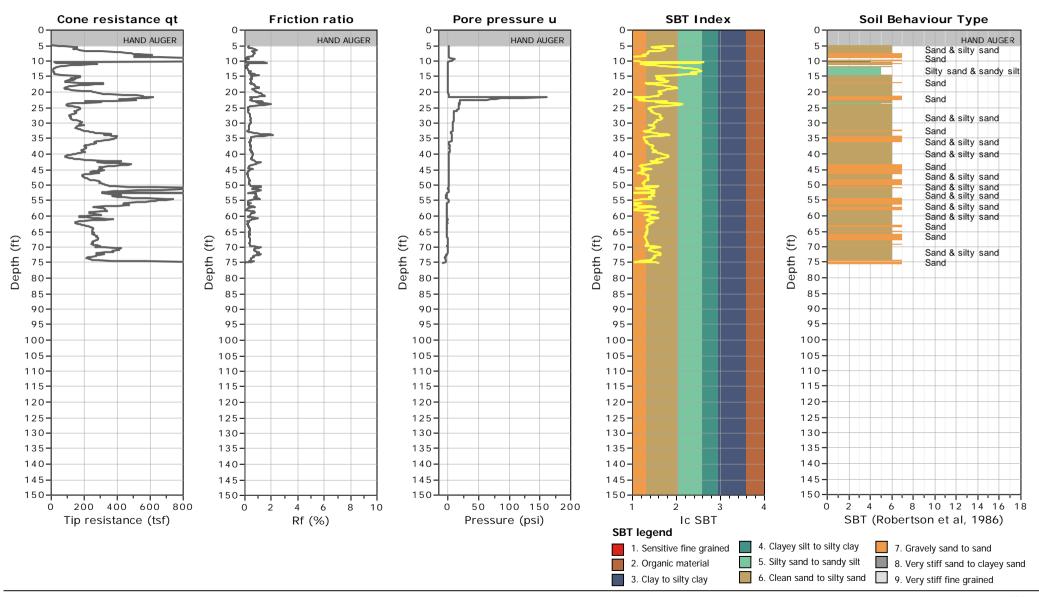


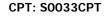


Location: Fresno, CA

Total depth: 75.13 ft Surface Elevation: 290.53 ft

Coords: X:6340055.50, Y:2136102.75



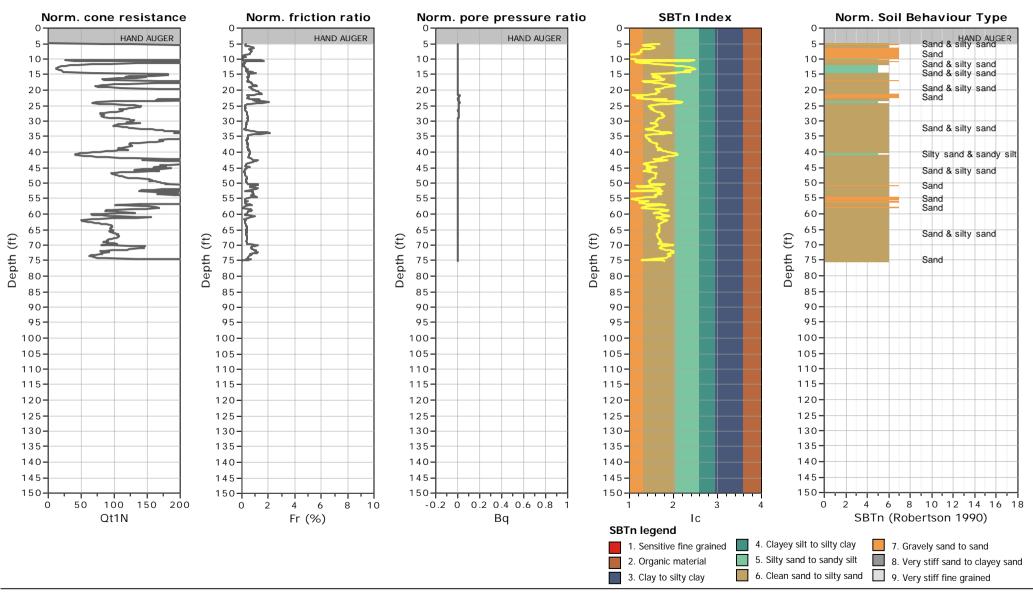


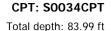


Location: Fresno, CA

Total depth: 75.13 ft Surface Elevation: 290.53 ft

Coords: X:6340055.50, Y:2136102.75





Cone Operator: A.Sancen

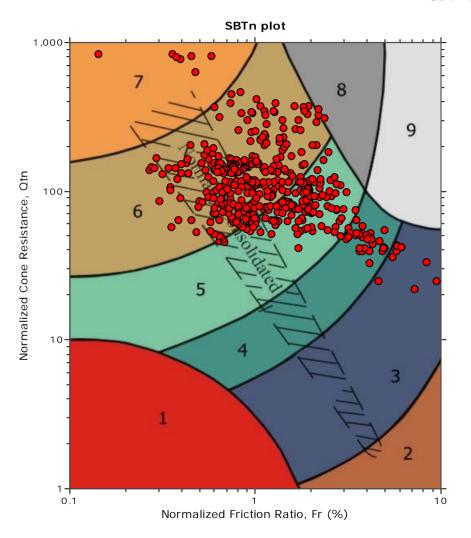
GEOLOGISMIKI
Geotechnical Software

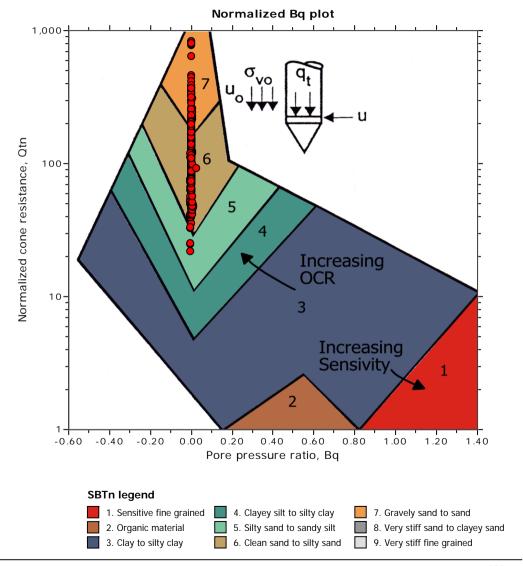
Surface Elevation: 297.03 ft
Coords: X:6340437.00, Y:2135354.25

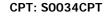
Project: California High-Speed Train

Surface Elevation: 297.03 ft
Coords: X:6340437.00, Y:2135354.25

Location: Fresno, CA







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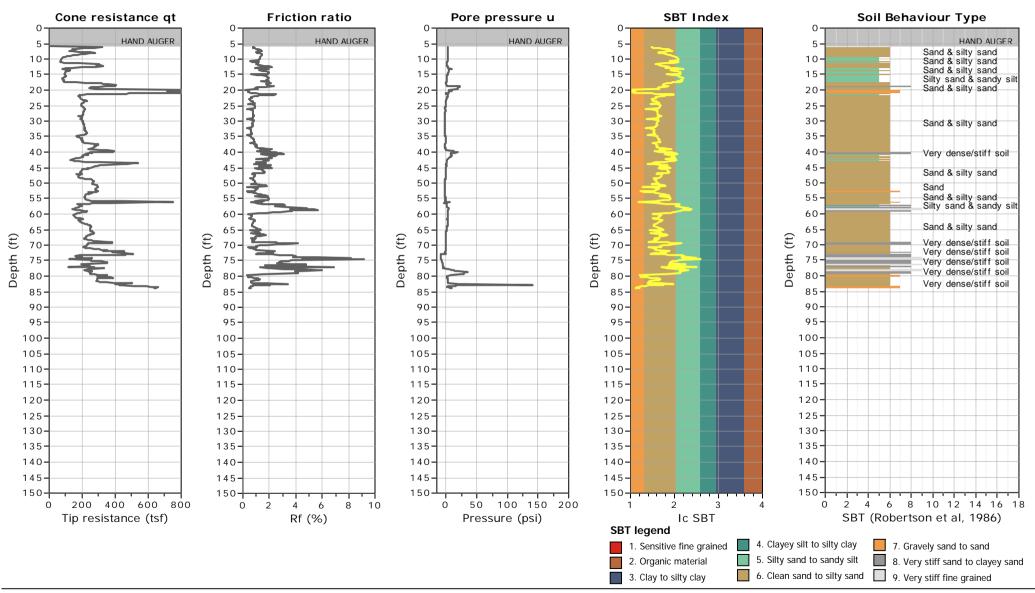
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 83.99 ft Surface Elevation: 297.03 ft

Coords: X:6340437.00, Y:2135354.25

Cone Type: GDC-24
Cone Operator: A.Sancen





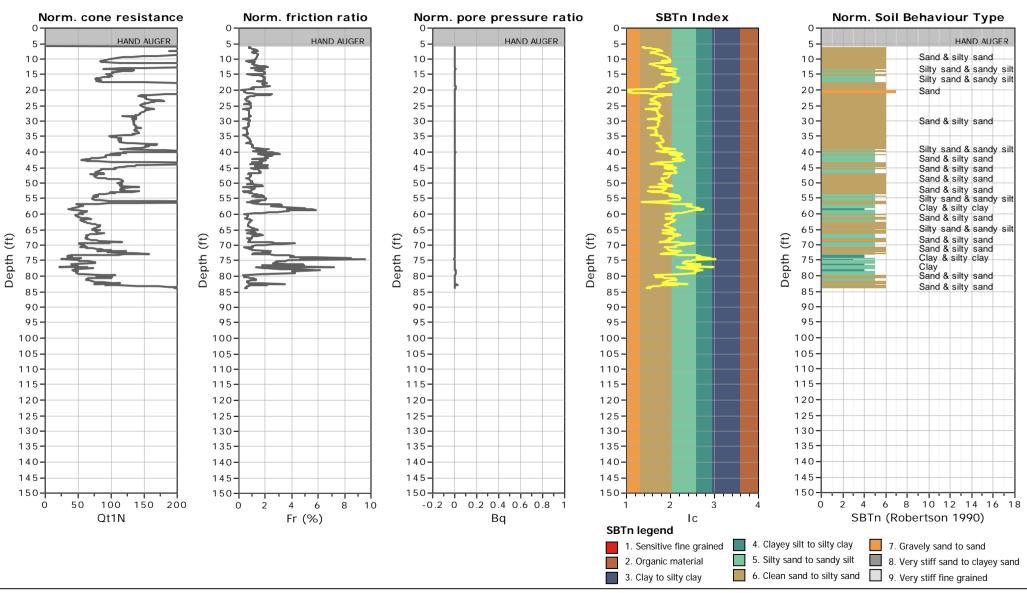


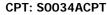
Location: Fresno, CA

Total depth: 83.99 ft Surface Elevation: 297.03 ft

Coords: X:6340437.00, Y:2135354.25

Cone Type: GDC-24
Cone Operator: A.Sancen





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Geotechnical Software

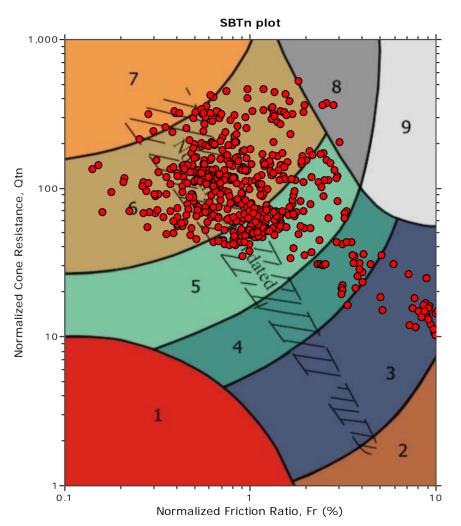
Project: California High-Speed Train

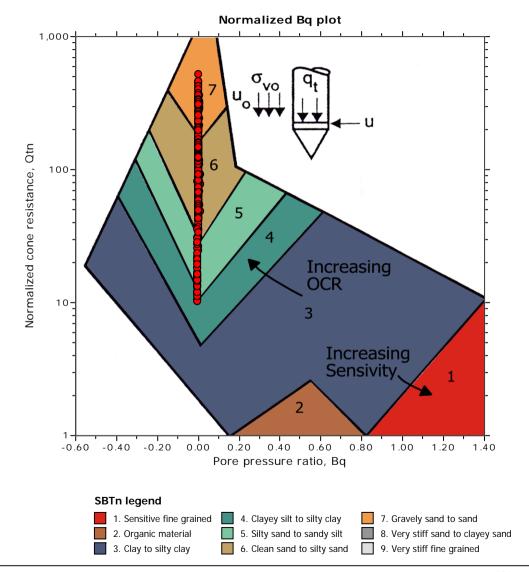
Location: Fresno, CA

Total depth: 95.14 ft

Surface Elevation: 303.67 ft Coords: X:6340365.00, Y:2134383.25

Cone Type: GDC-24
Cone Operator: A.Sancen







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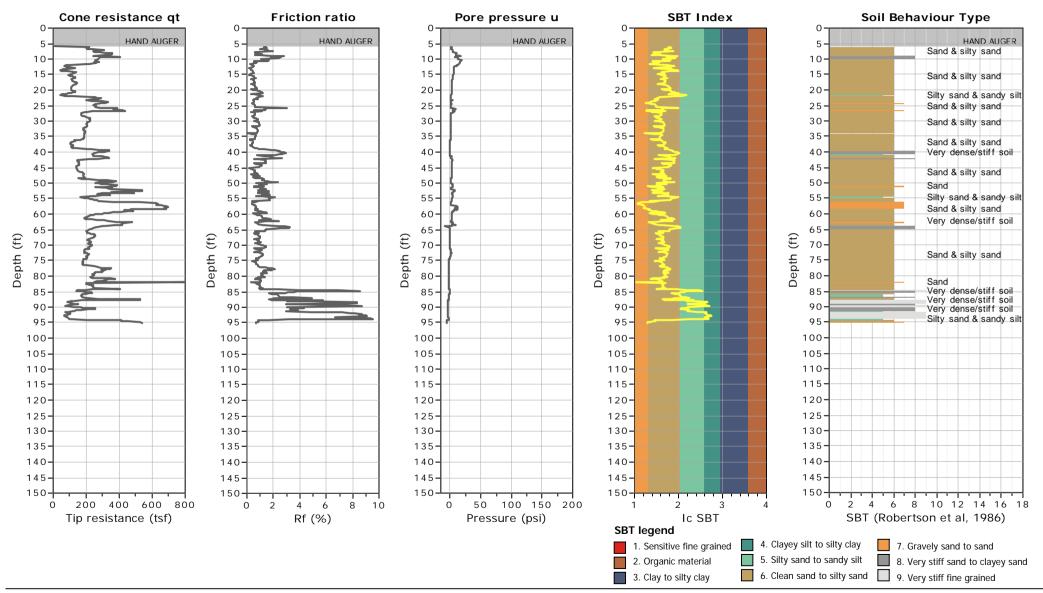
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 95.14 ft Surface Elevation: 303.67 ft

Coords: X:6340365.00, Y:2134383.25

Cone Type: GDC-24
Cone Operator: A.Sancen







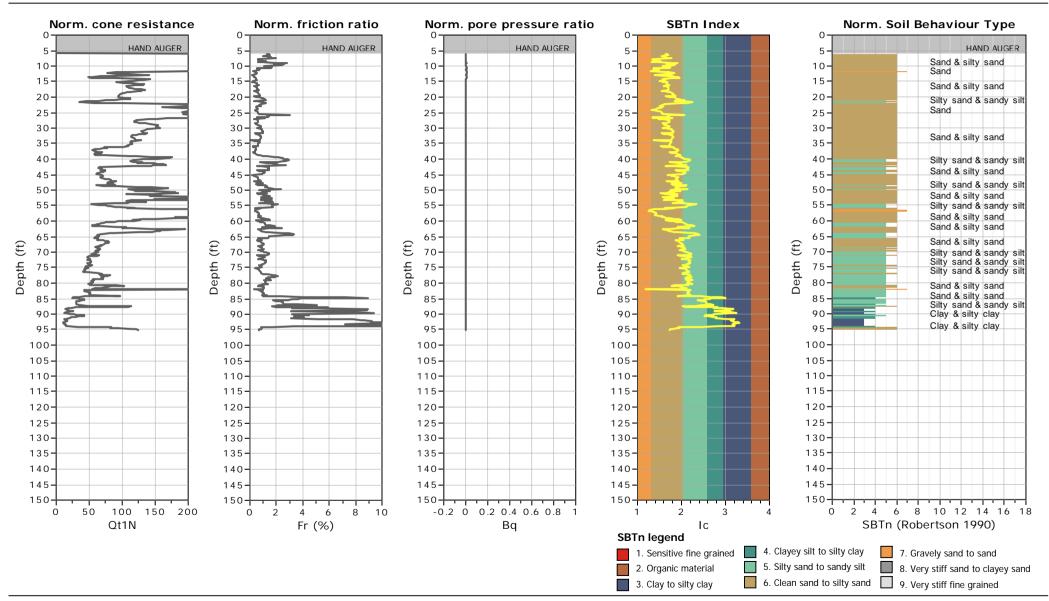
Location: Fresno, CA

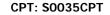
Total depth: 95.14 ft Surface Elevation: 303.67 ft

Coords: X:6340365.00, Y:2134383.25

Cone Type: GDC-24

Cone Operator: A.Sancen





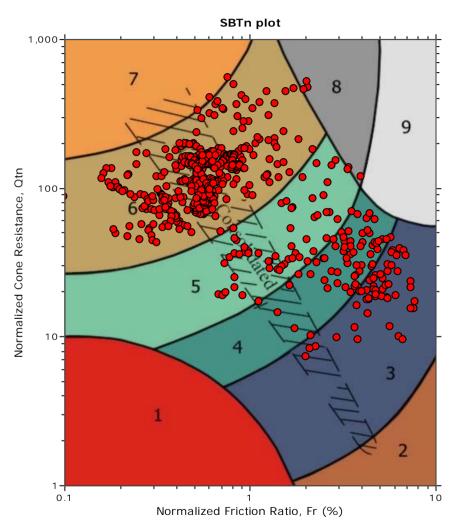


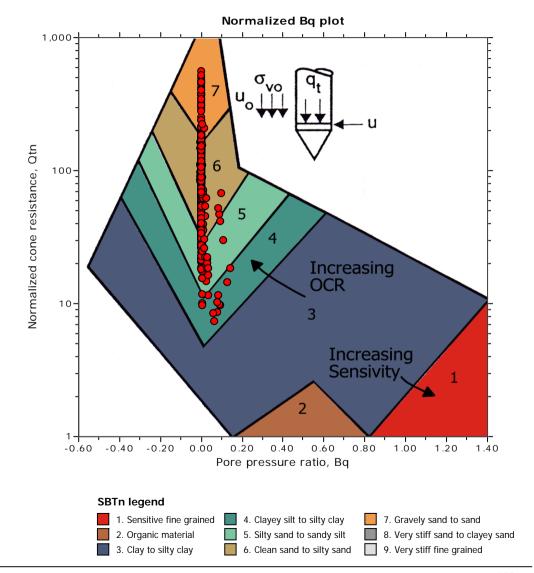
Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 289.15 ft

Coords: X:6340899.50, Y:2133420.25

Cone Type: GDC-32 Cone Operator: J.Hancock





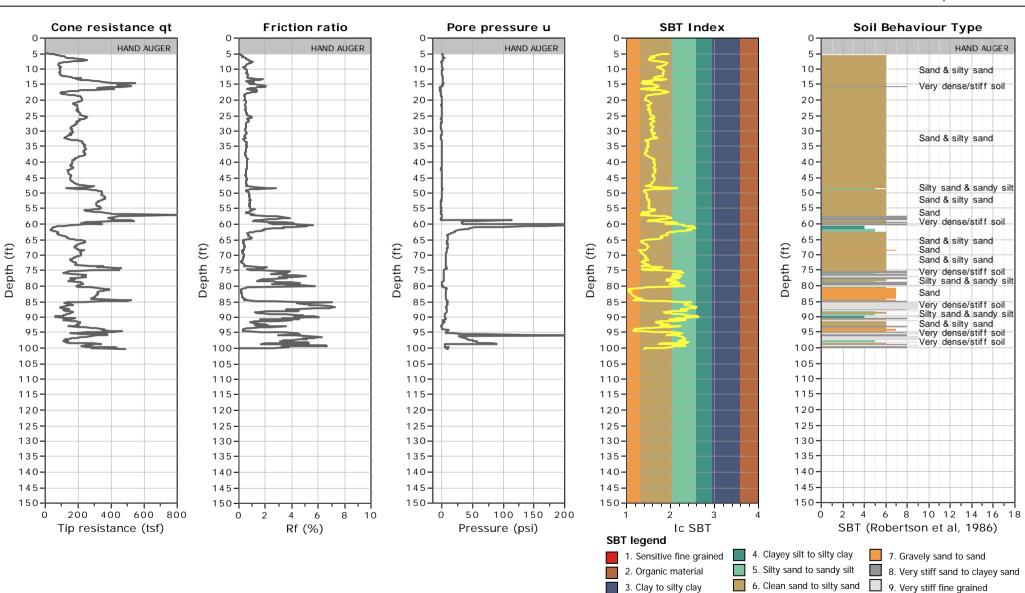


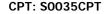


Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 289.15 ft

Coords: X:6340899.50, Y:2133420.25



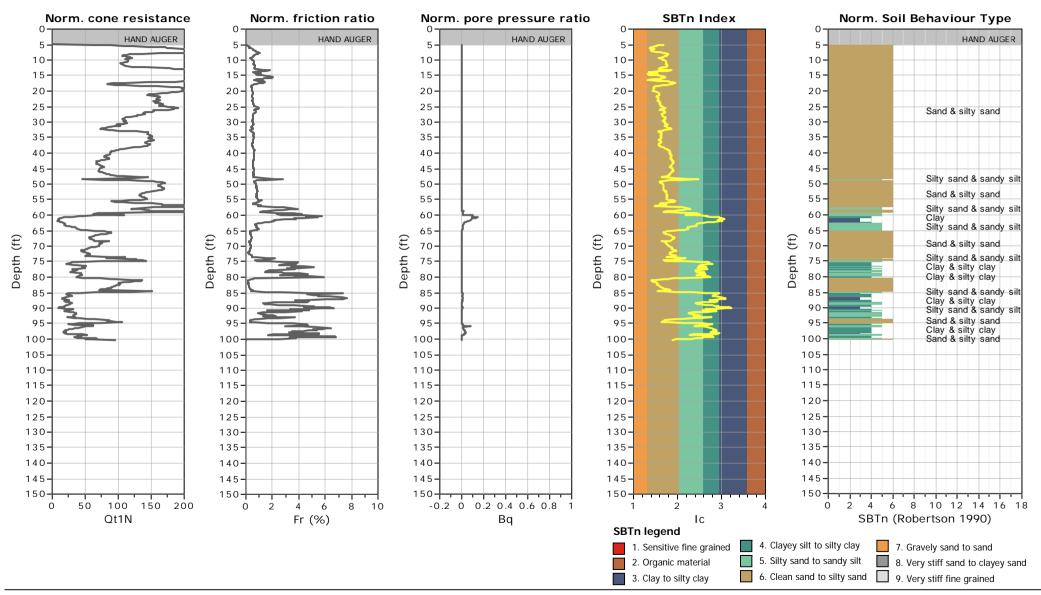




Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 289.15 ft

Coords: X:6340899.50, Y:2133420.25





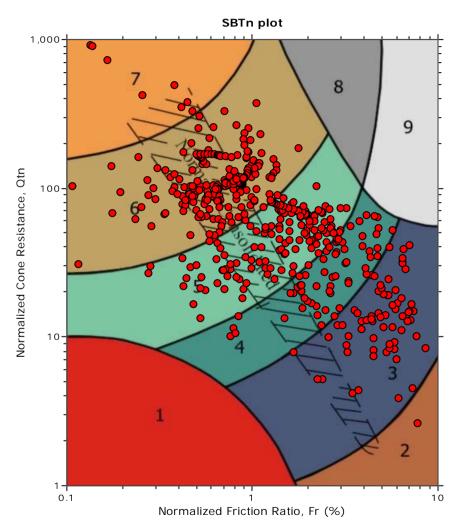


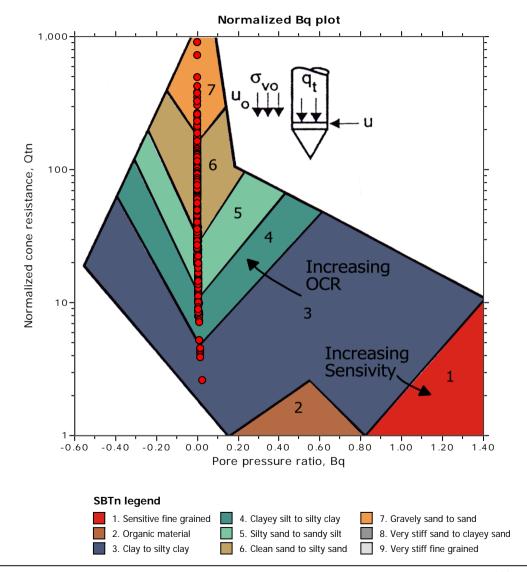
Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 288.02 ft

Coords: X:6340355.00, Y:2132620.75

Cone Type: GDC-51
Cone Operator: A.Sancen







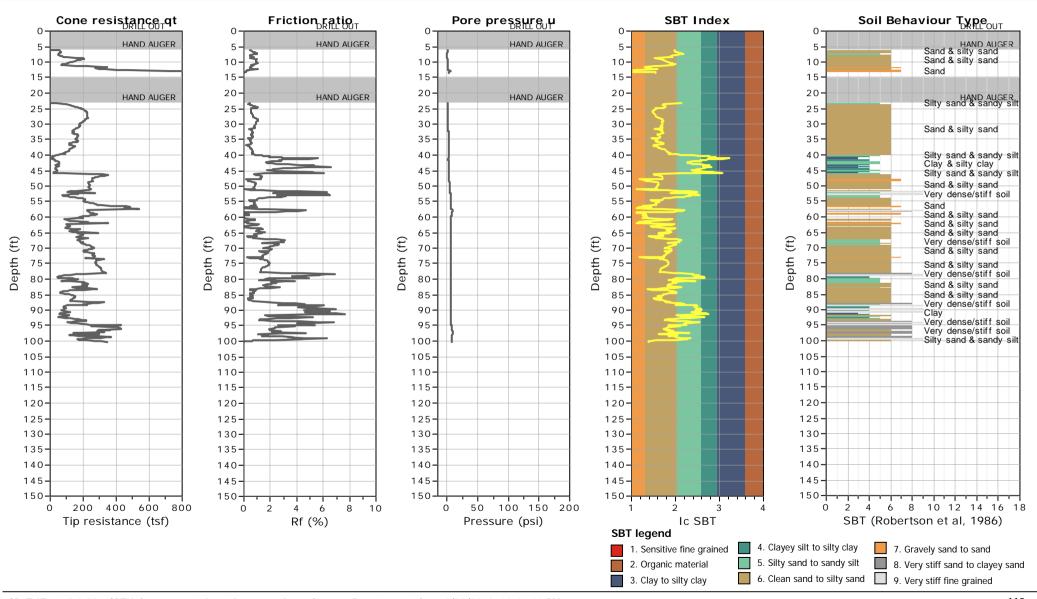


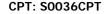
Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 288.02 ft

Coords: X:6340355.00, Y:2132620.75

Cone Type: GDC-51
Cone Operator: A.Sancen







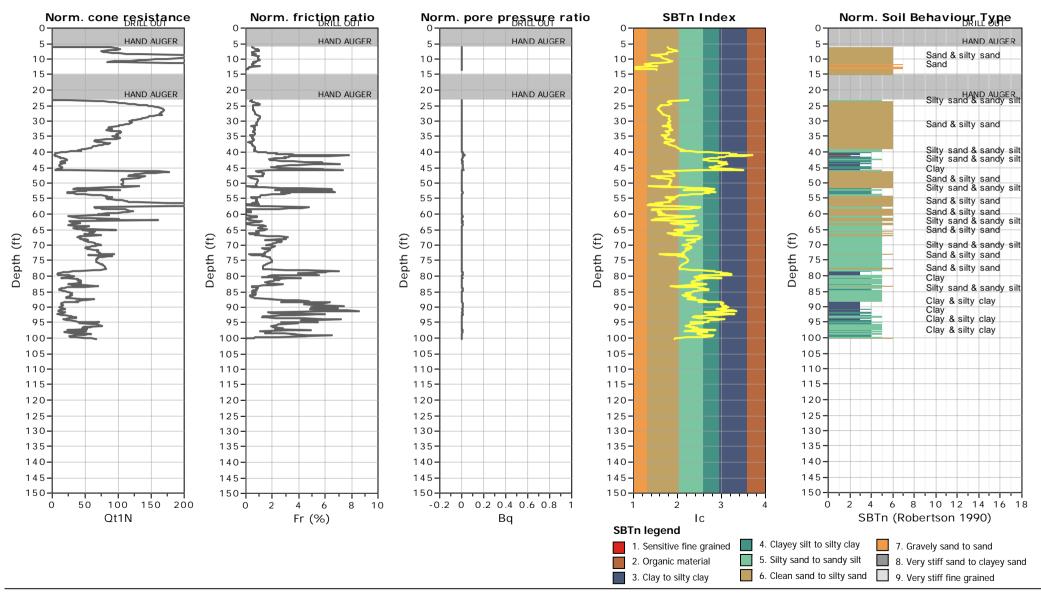
Location: Fresno, CA

Total depth: 100.23 ft Surface Elevation: 288.02 ft

Coords: X:6340355.00, Y:2132620.75

Cone Type: GDC-51

Cone Operator: A.Sancen





Total depth: 80.05 ft

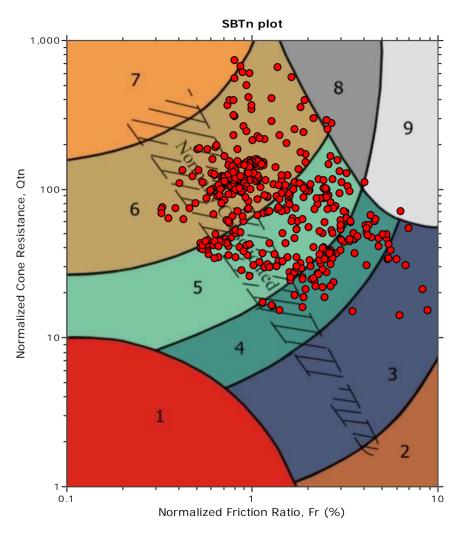
Surface Elevation: 289.27 ft

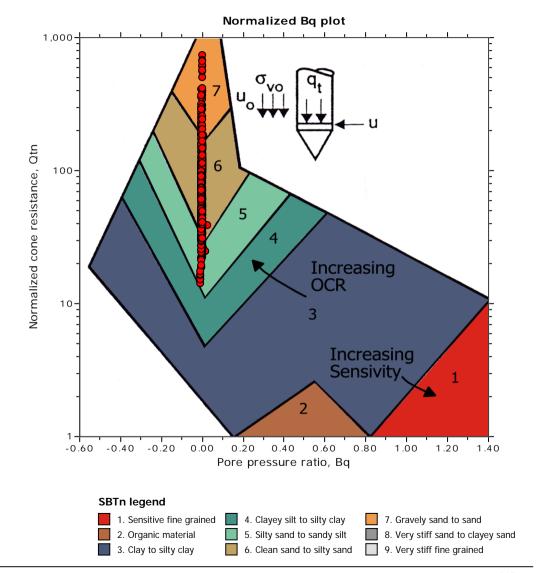
Coords: X:6341444.00, Y:2130805.75

Cone Type: GDC-32 Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA





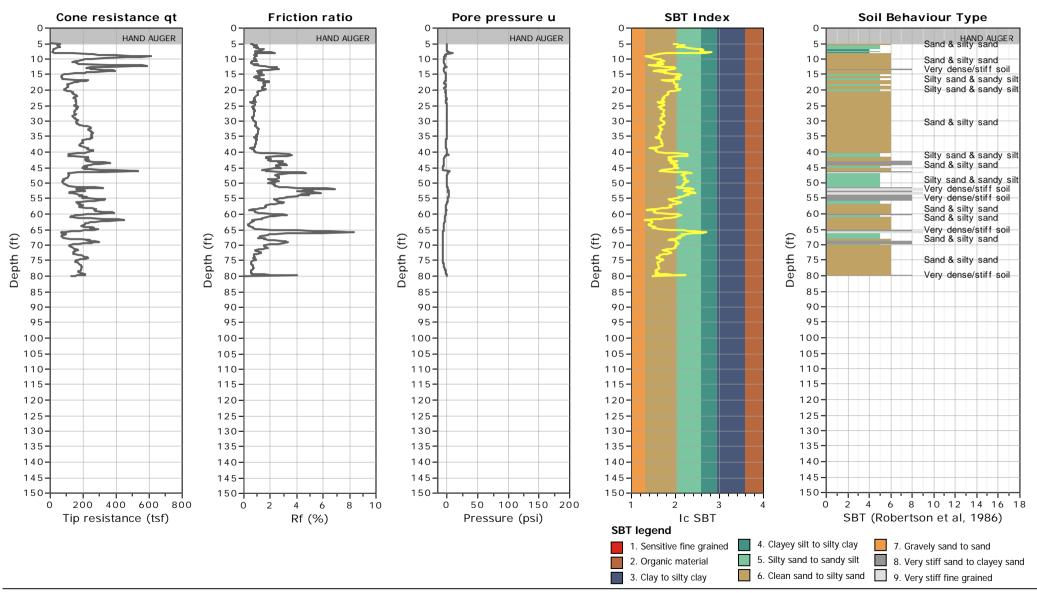




Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 289.27 ft

Coords: X:6341444.00, Y:2130805.75







Total depth: 80.05 ft Surface Elevation: 289.27 ft

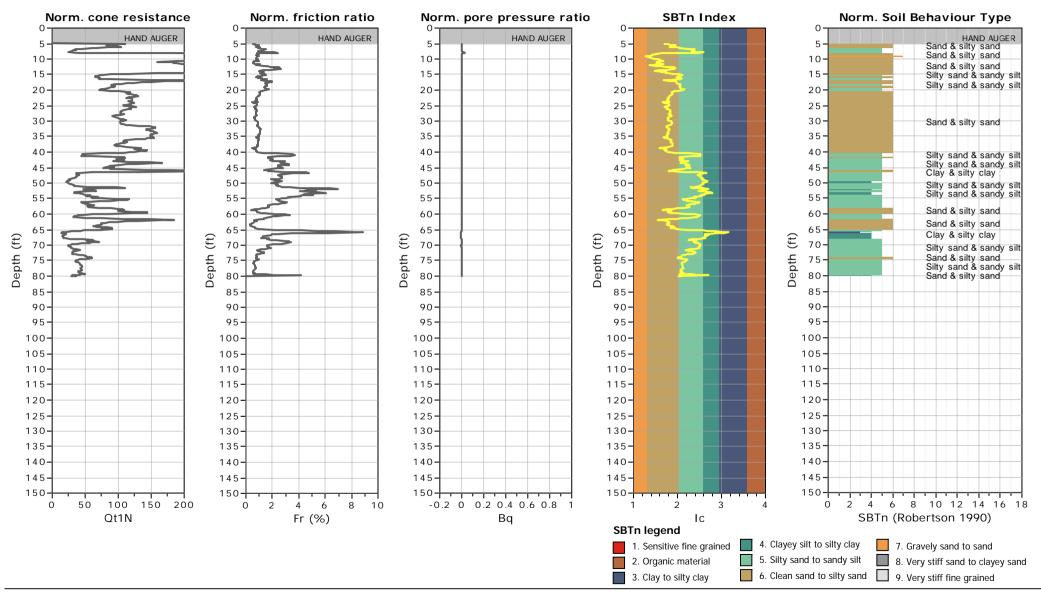
Coords: X:6341444.00, Y:2130805.75

Cone Type: GDC-32

Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA





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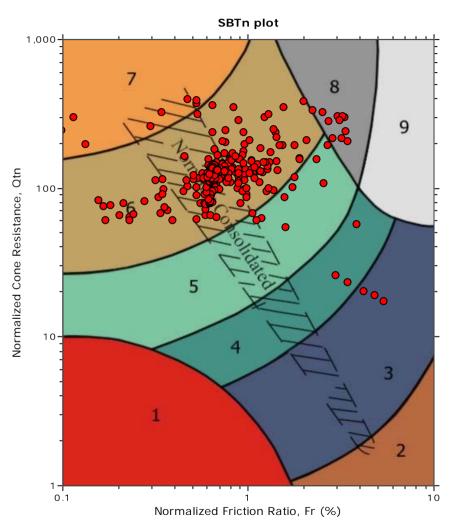
Project: California High-Speed Train

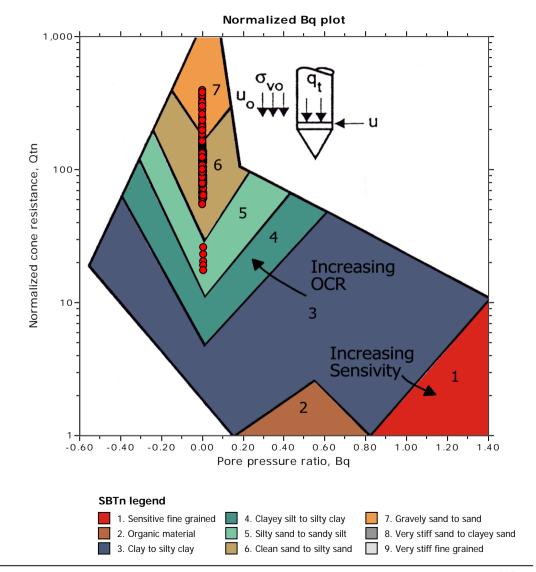
Location: Fresno, CA

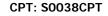
Total depth: 50.20 ft Surface Elevation: 287.29 ft

Coords: X:6340323.50, Y:2129825.00

Cone Type: GDC-51
Cone Operator: A.Sancen







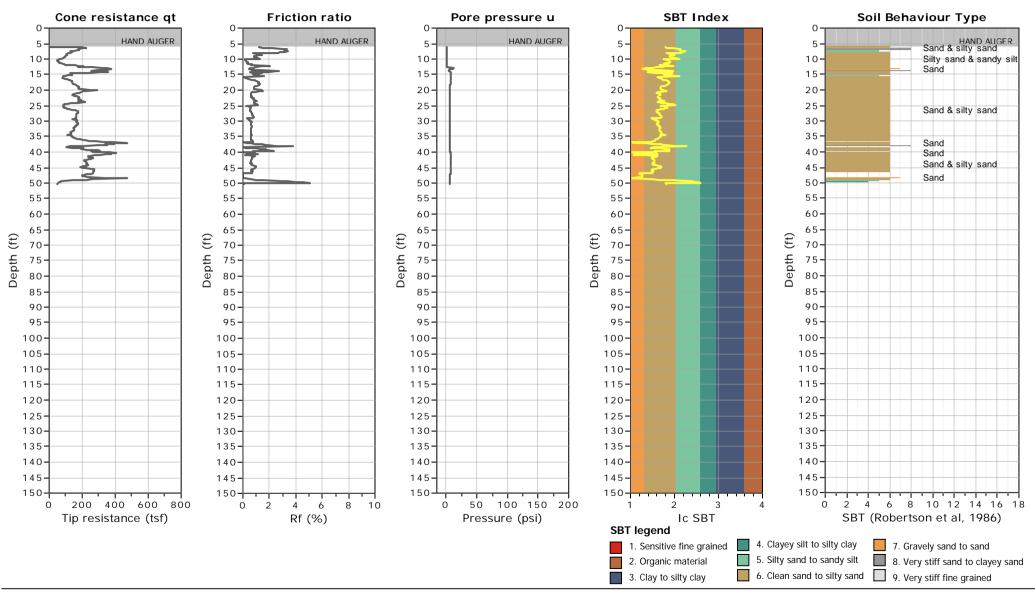


Location: Fresno, CA

Total depth: 50.20 ft Surface Elevation: 287.29 ft

Coords: X:6340323.50, Y:2129825.00

Cone Type: GDC-51
Cone Operator: A.Sancen







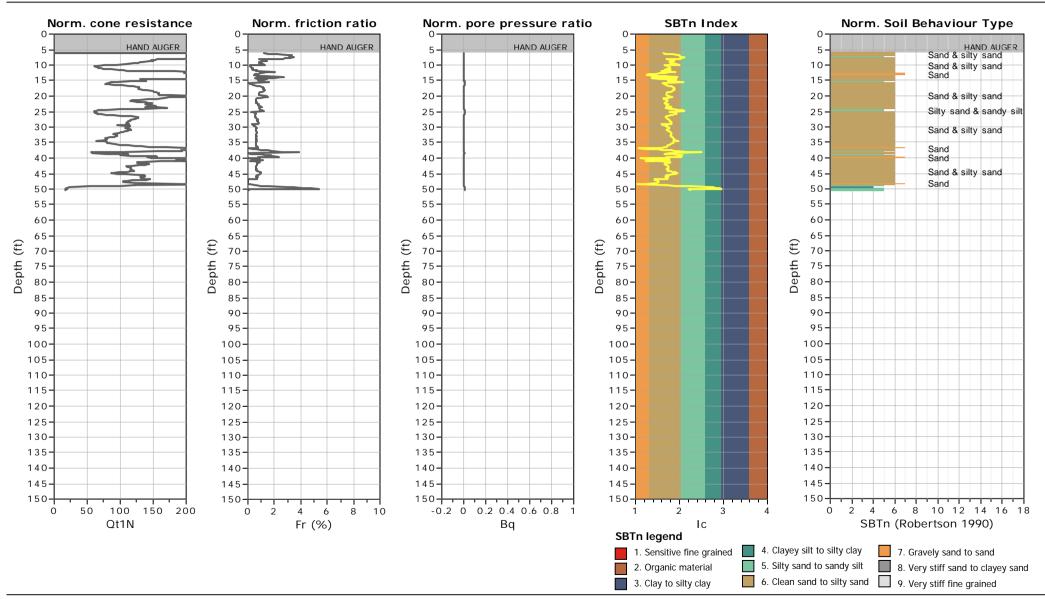
Total depth: 50.20 ft Surface Elevation: 287.29 ft

Coords: X:6340323.50, Y:2129825.00

Cone Type: GDC-51
Cone Operator: A.Sancen

Project: California High-Speed Train

Location: Fresno, CA





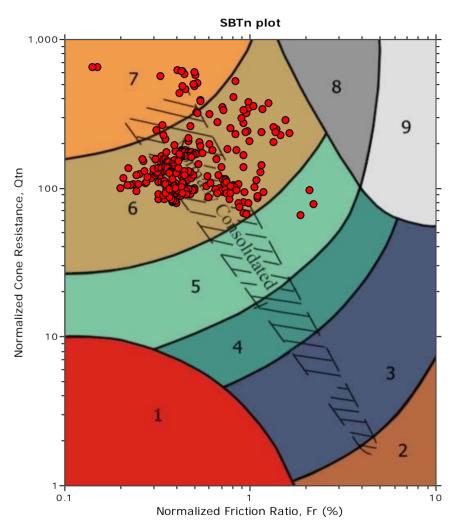


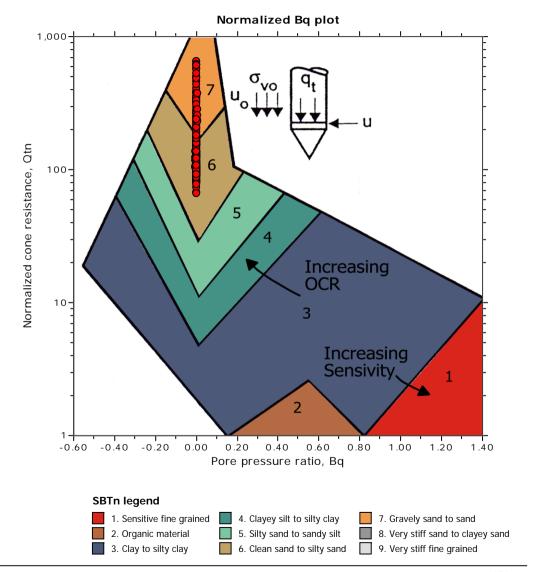
Location: Fresno, CA

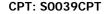
Total depth: 50.36 ft Surface Elevation: 290.43 ft

Coords: X:6341850.00, Y:2128141.50

Cone Type: GDC-32
Cone Operator: J.Hancock







Cone Type: GDC-32



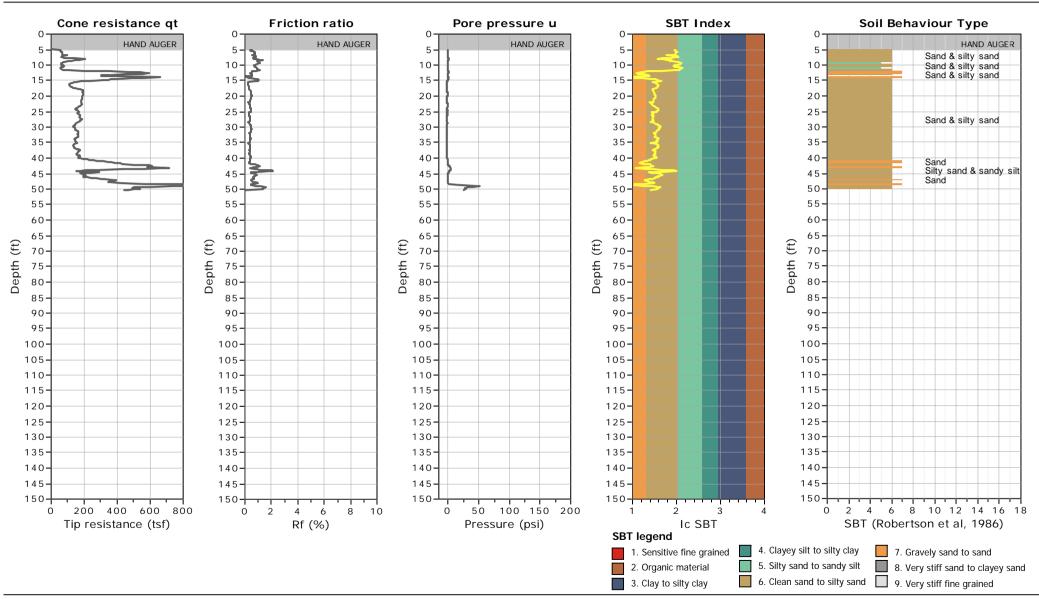
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 50.36 ft Surface Elevation: 290.43 ft

Coords: X:6341850.00, Y:2128141.50

Cone Operator: J.Hancock







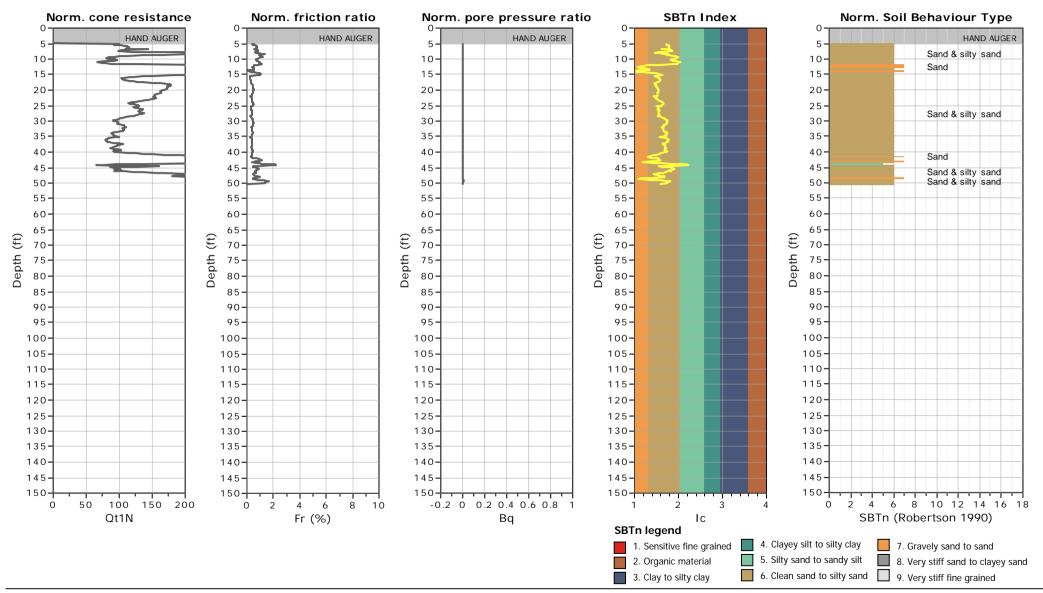
Surface Elevation: 290.43 ft

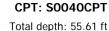
Coords: X:6341850.00, Y:2128141.50

Cone Type: GDC-32 Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA





Surface Elevation: 289.19 ft

Cone Operator: J.Hancock

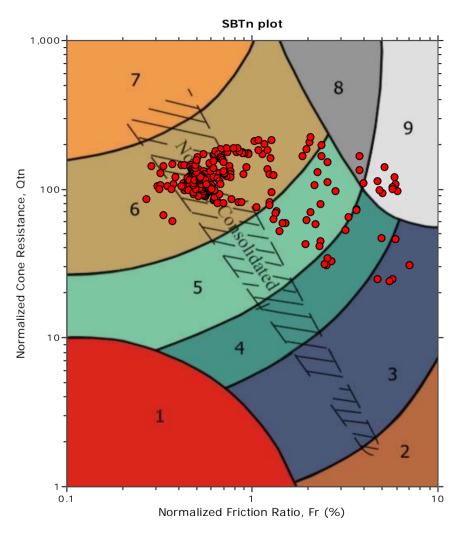
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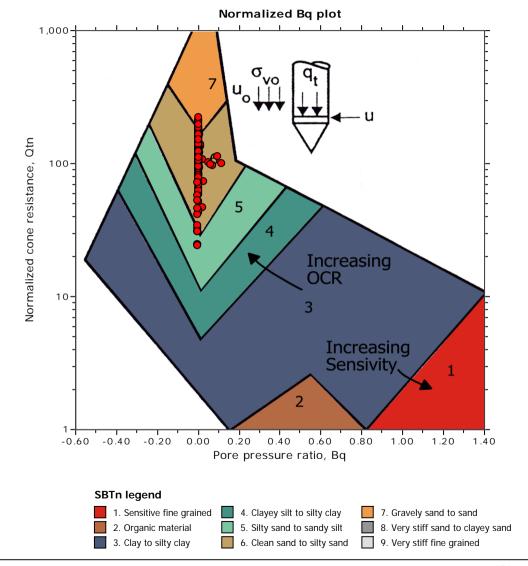
Coords: X:6340332.00, Y:2126307.25

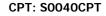
Project: California High-Speed Train

Cone Type: GDC-32

Location: Fresno, CA





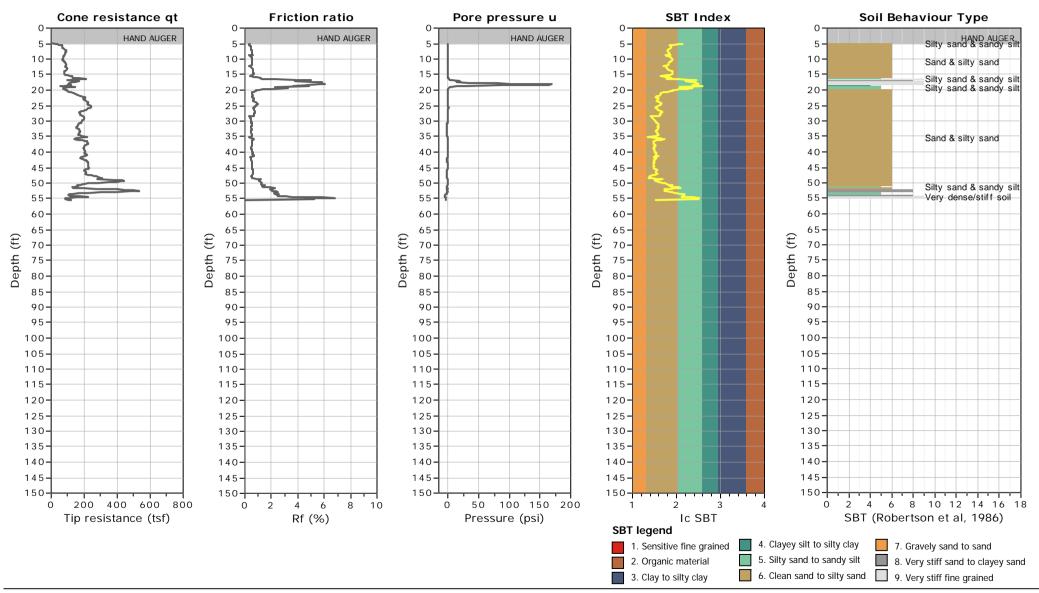


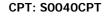


Location: Fresno, CA

Total depth: 55.61 ft Surface Elevation: 289.19 ft

Coords: X:6340332.00, Y:2126307.25



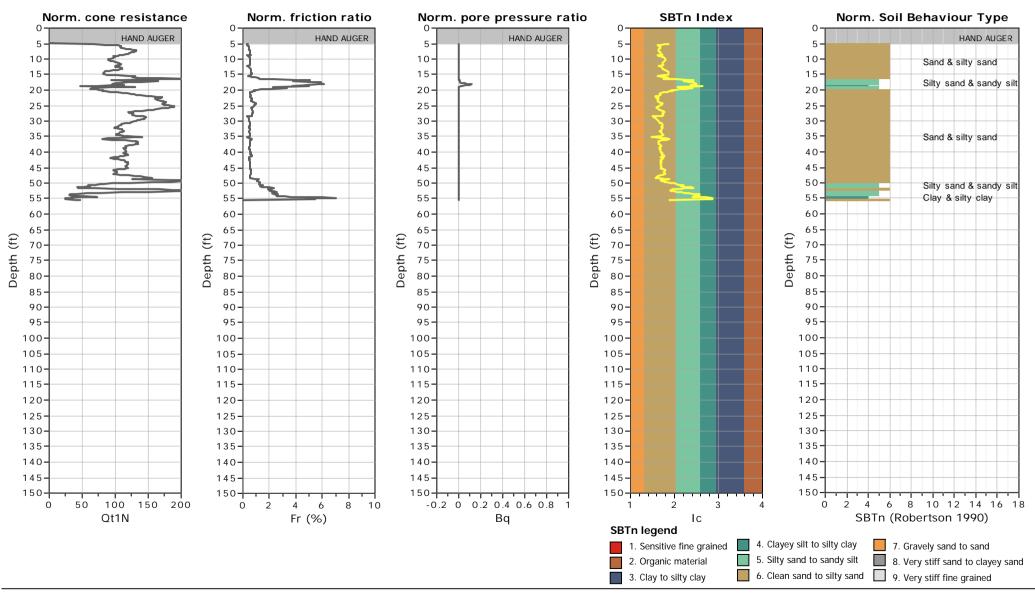




Location: Fresno, CA

Total depth: 55.61 ft Surface Elevation: 289.19 ft

Coords: X:6340332.00, Y:2126307.25





Total depth: 80.22 ft

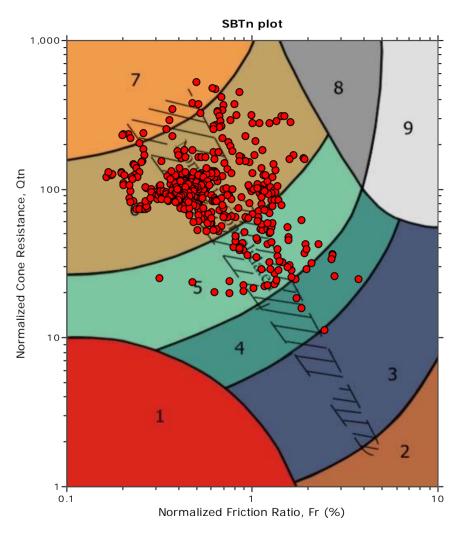
Surface Elevation: 293.06 ft

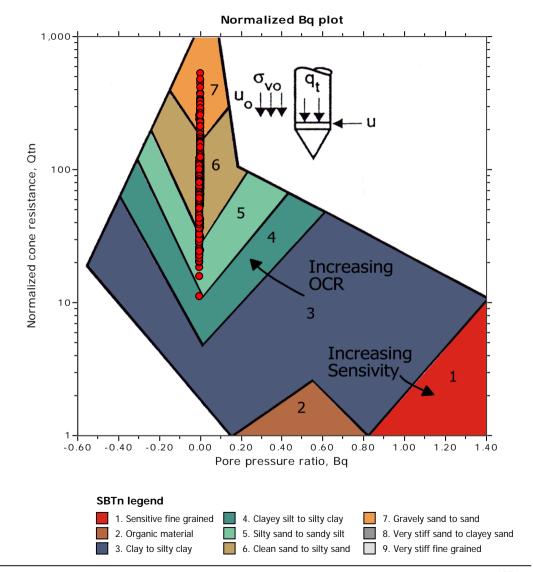
Coords: X:6341313.00, Y:2125479.50

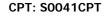
Cone Type: GDC-32 Cone Operator: J.Hancock

Project: California High-Speed Train

Location: Fresno, CA





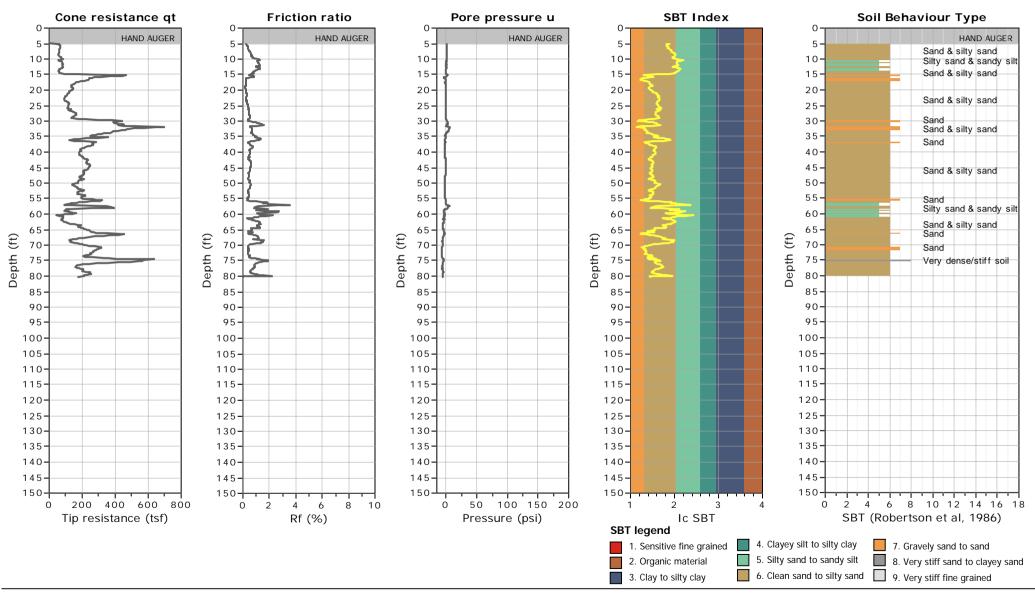




Location: Fresno, CA

Total depth: 80.22 ft Surface Elevation: 293.06 ft

Coords: X:6341313.00, Y:2125479.50



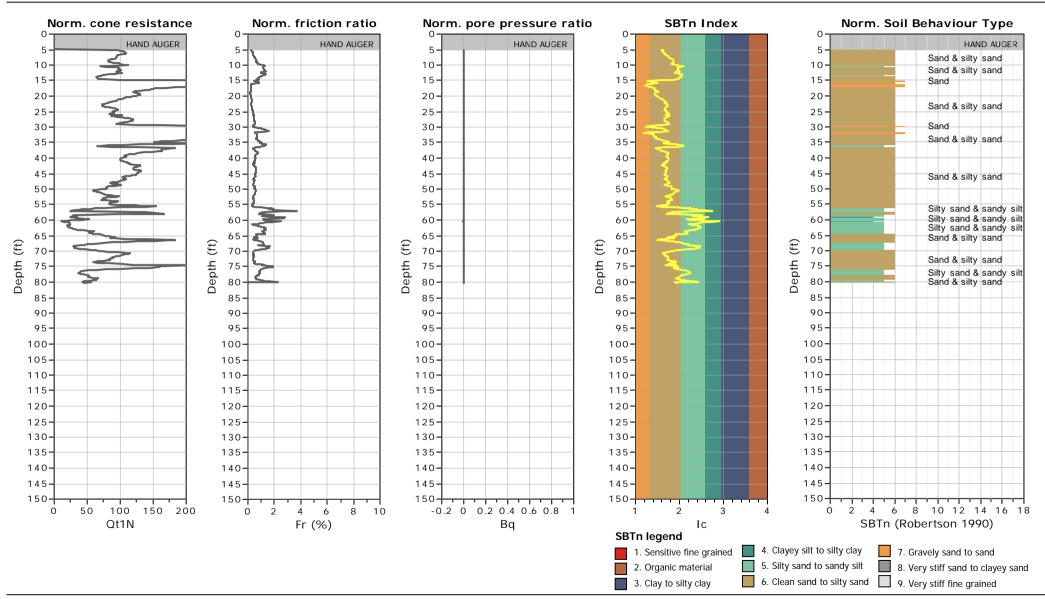




Location: Fresno, CA

Total depth: 80.22 ft Surface Elevation: 293.06 ft

Coords: X:6341313.00, Y:2125479.50





Total depth: 80.05 ft

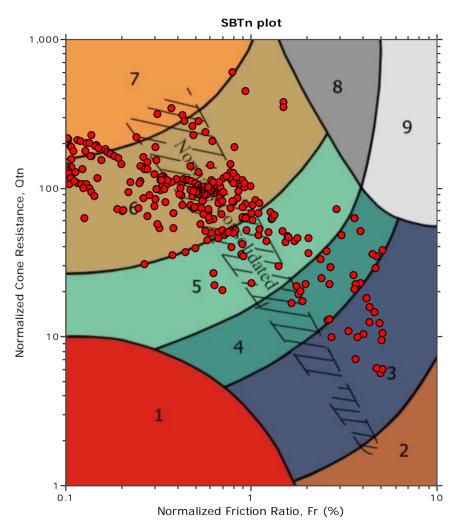
Surface Elevation: 291.50 ft Coords: X:6341813.50, Y:2125509.75

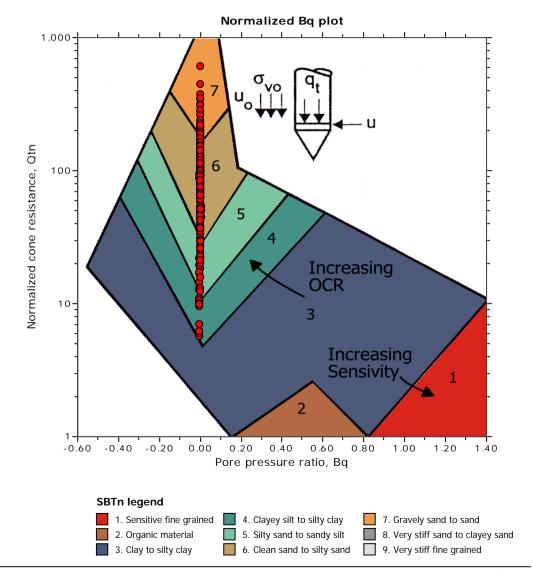
Cone Type: GDC-51

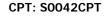
Cone Operator: A.Sancen

Project: California High-Speed Train

Location: Fresno, CA









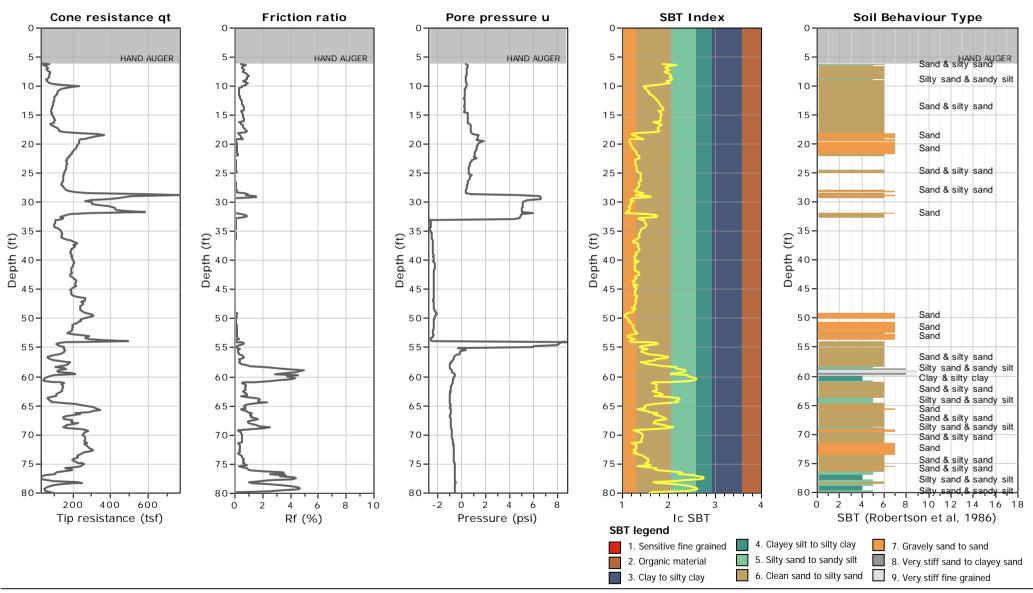
Project: California High-Speed Train

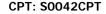
Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 291.50 ft

Coords: X:6341813.50, Y:2125509.75

Cone Type: GDC-51
Cone Operator: A.Sancen







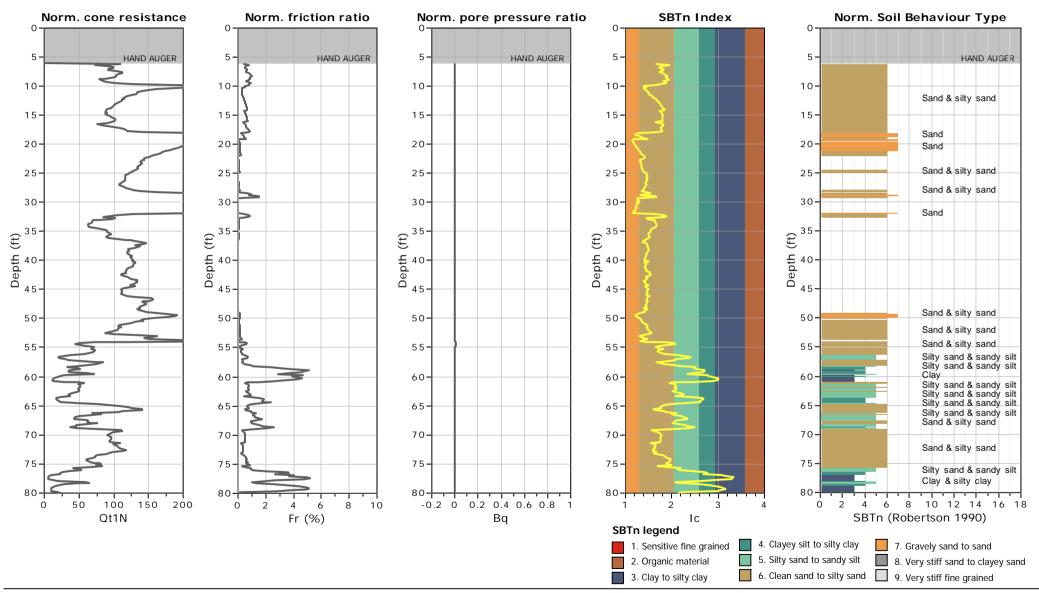
Project: California High-Speed Train

Location: Fresno, CA

Total depth: 80.05 ft Surface Elevation: 291.50 ft

Coords: X:6341813.50, Y:2125509.75

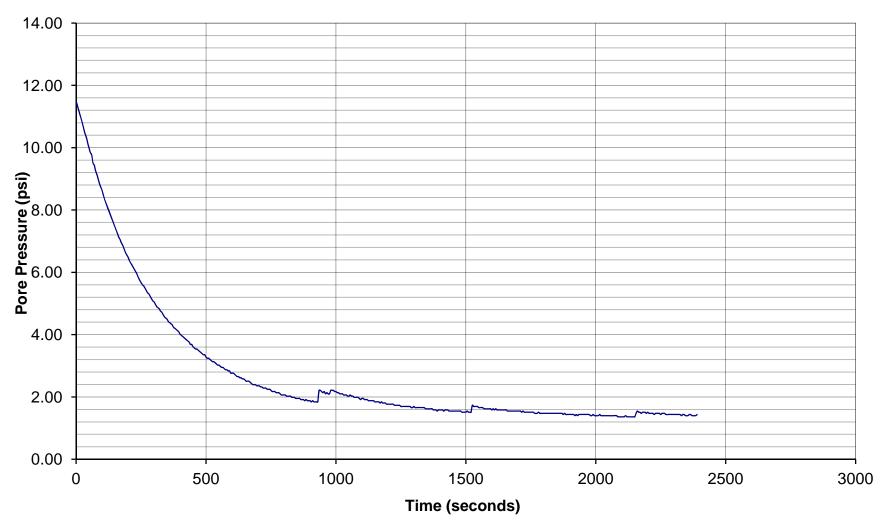
Cone Type: GDC-51
Cone Operator: A.Sancen





Pore Pressure Dissipation Test

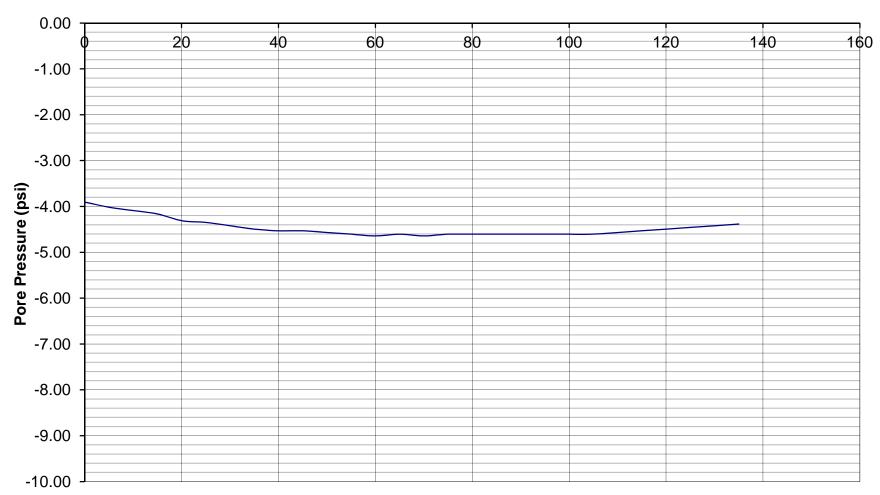
Sounding: S0001CPT
Depth: 50.03 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

Sounding: S0005CPT
Depth: 76.77 feet
Site: Fresno
Engineer: B. Kluzniak

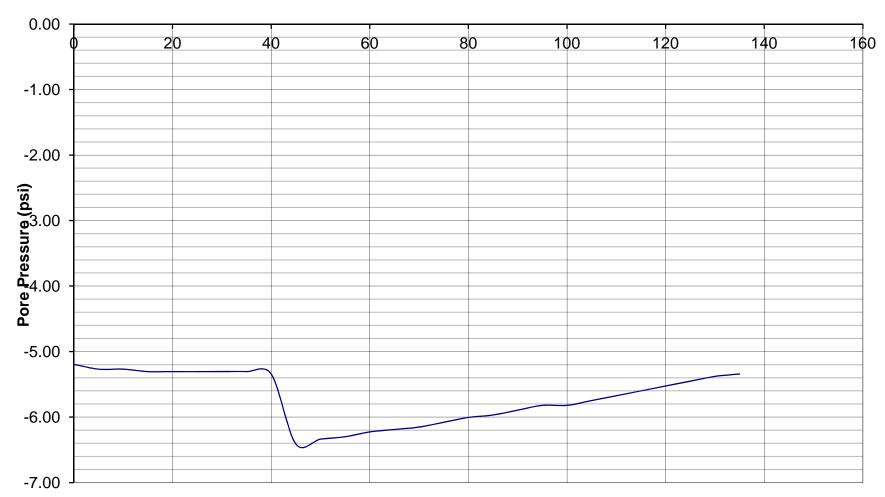


Time (seconds)



Pore Pressure Dissipation Test

Sounding: S0006CPT
Depth: 80.05 feet
Site: Fresno
Engineer: B. Kluzniak



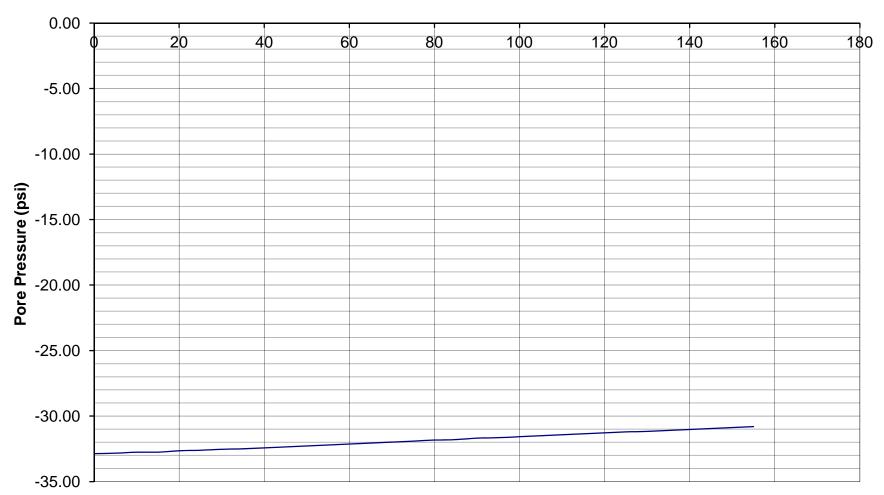
Time (seconds)



Pore Pressure Dissipation Test

Sounding: S0008ACPT
Depth: 99.41 feet
Site: Fresno

Engineer: B. Kluzniak

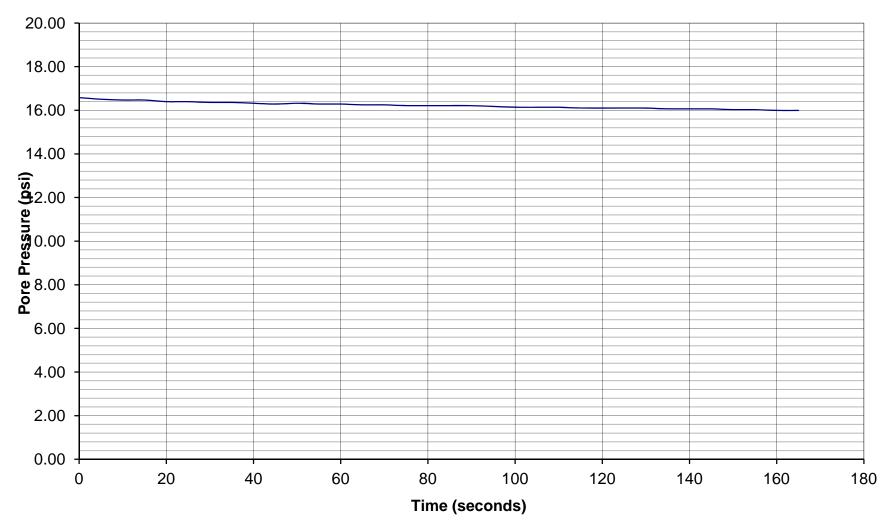


Time (seconds)



Pore Pressure Dissipation Test

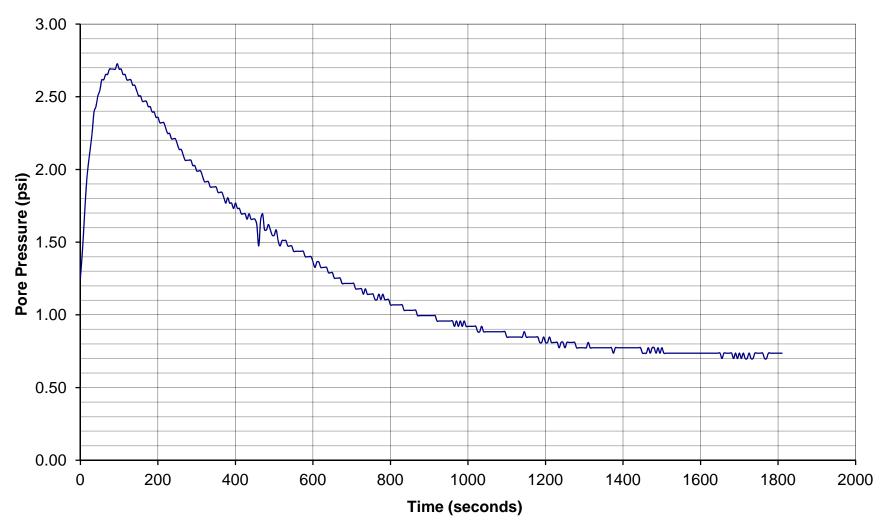
Sounding: S0009CPT Depth: 104.99 feet Site: Fresno Engineer: B. Kluzniak





Pore Pressure Dissipation Test

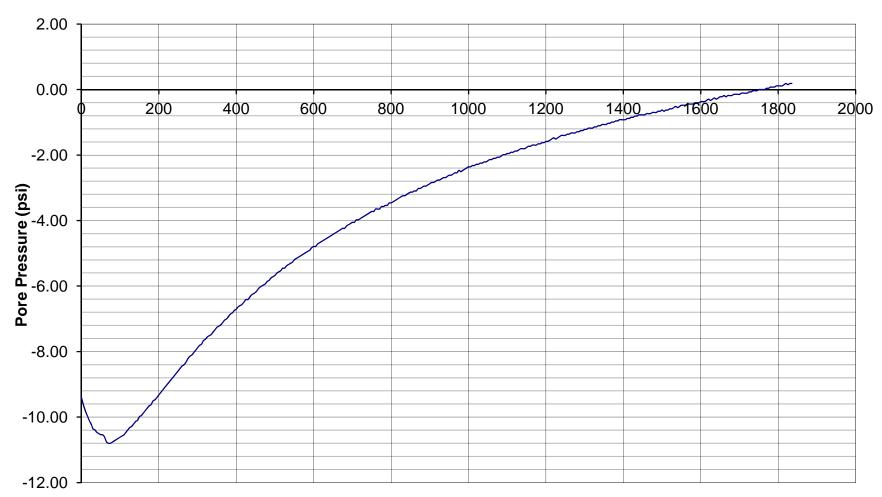
Sounding: S0009CPT
Depth: 105.81 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

Sounding: S0012CPT
Depth: 102.2 feet
Site: Fresno
Engineer: B. Kluzniak

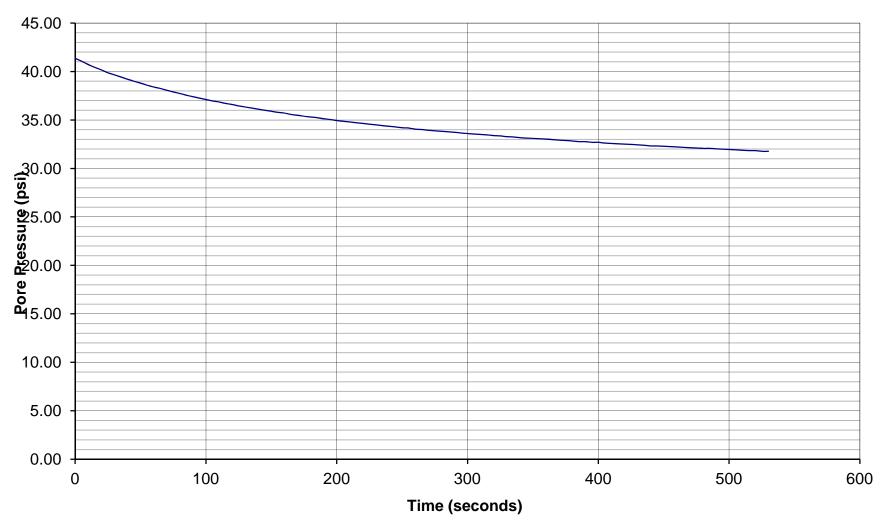


Time (seconds)



Pore Pressure Dissipation Test

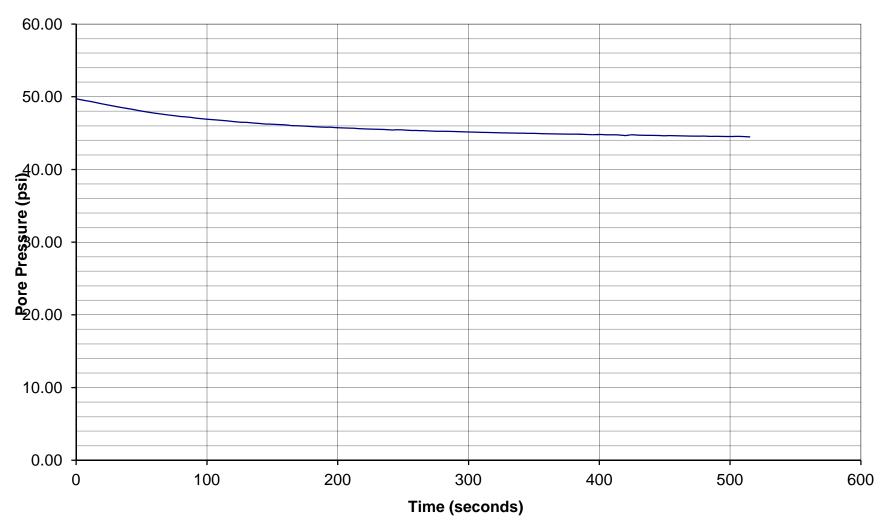
Sounding: S0016CPT
Depth: 50.36 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

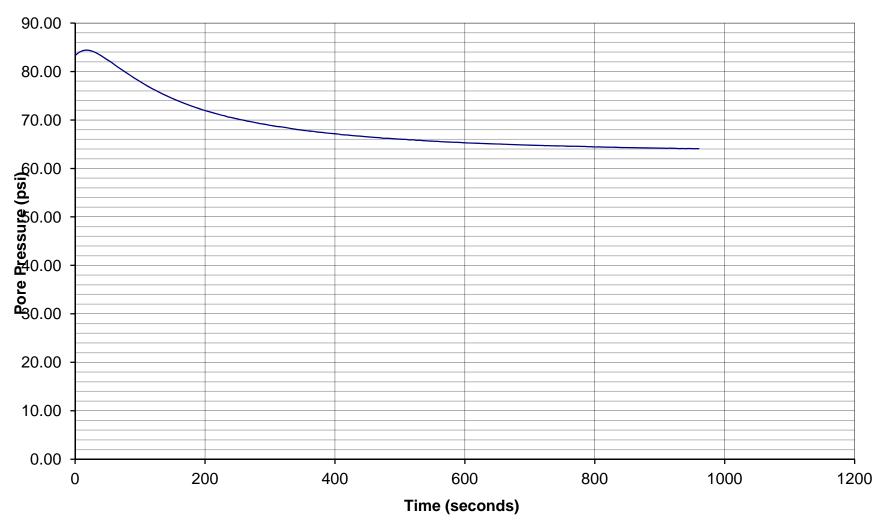
Sounding: S0022CPT
Depth: 80.05 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

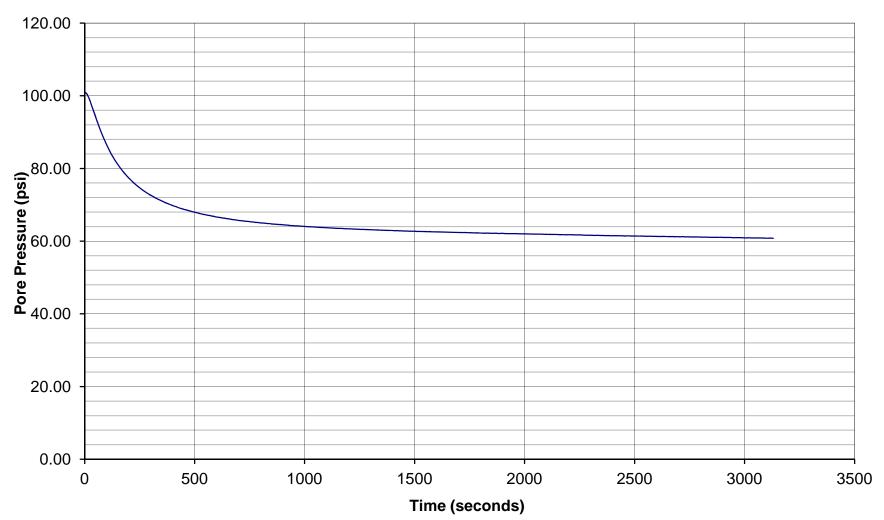
Sounding: S0023ACPT
Depth: 113.52 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

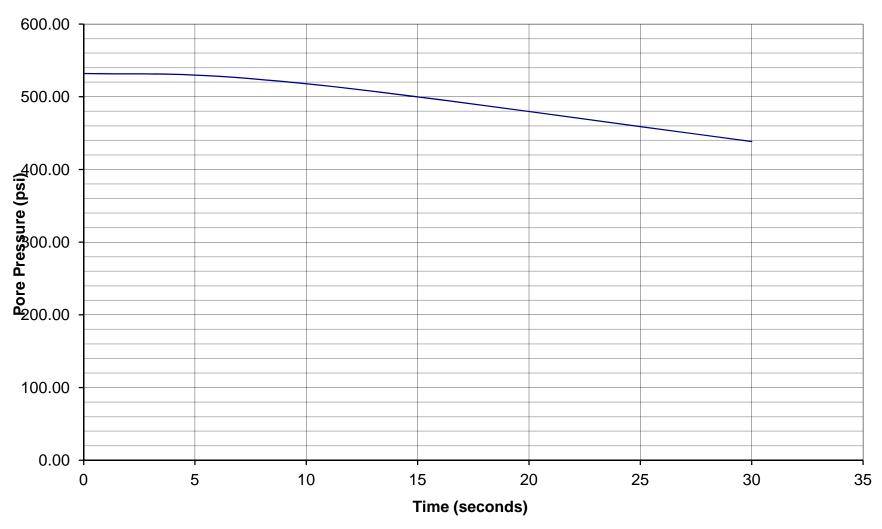
Sounding: S0023ACPT
Depth: 129.59 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

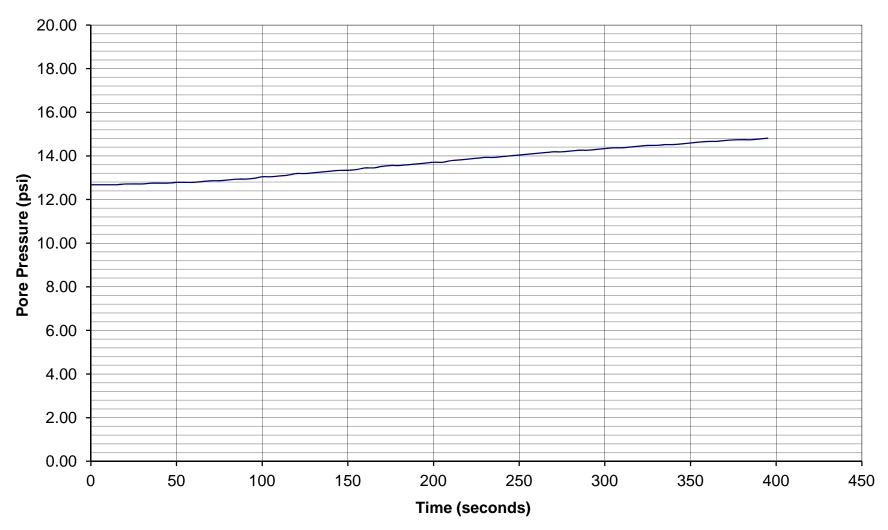
Sounding: S0023ACPT
Depth: 150.59 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

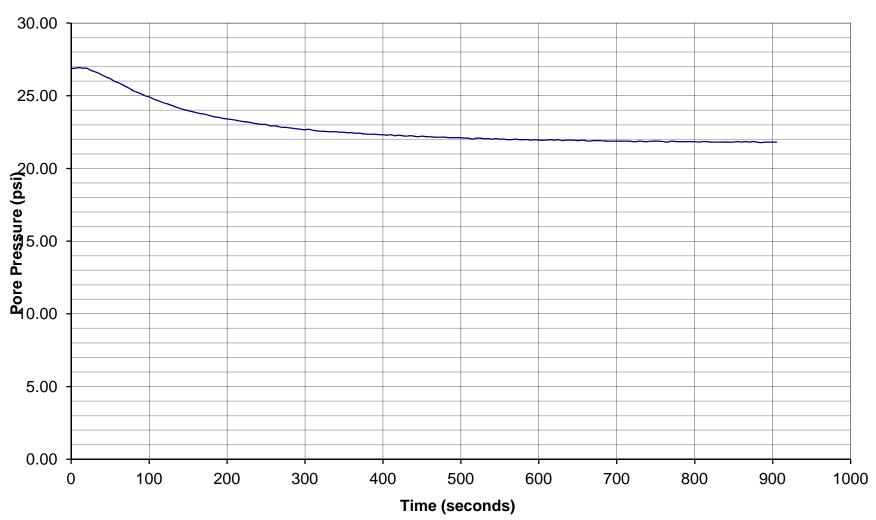
Sounding: S0024CPT
Depth: 80.05 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

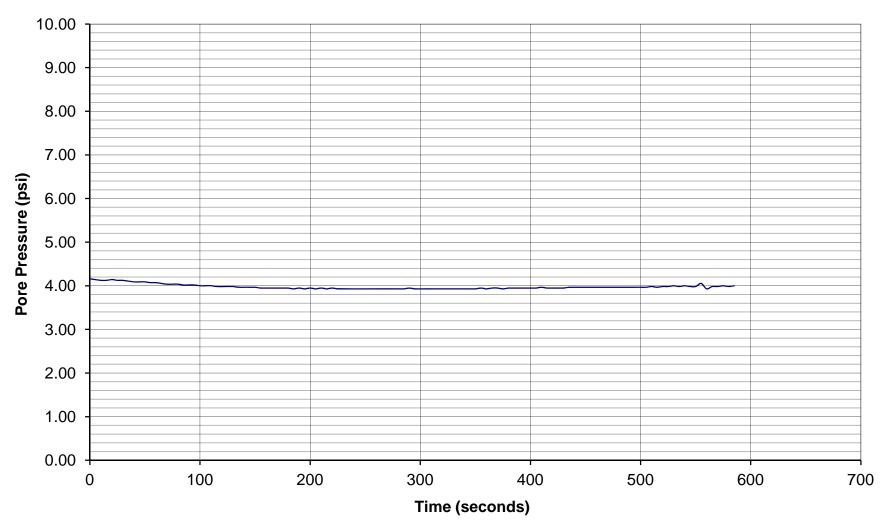
Sounding: S0025CPT
Depth: 118.44 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

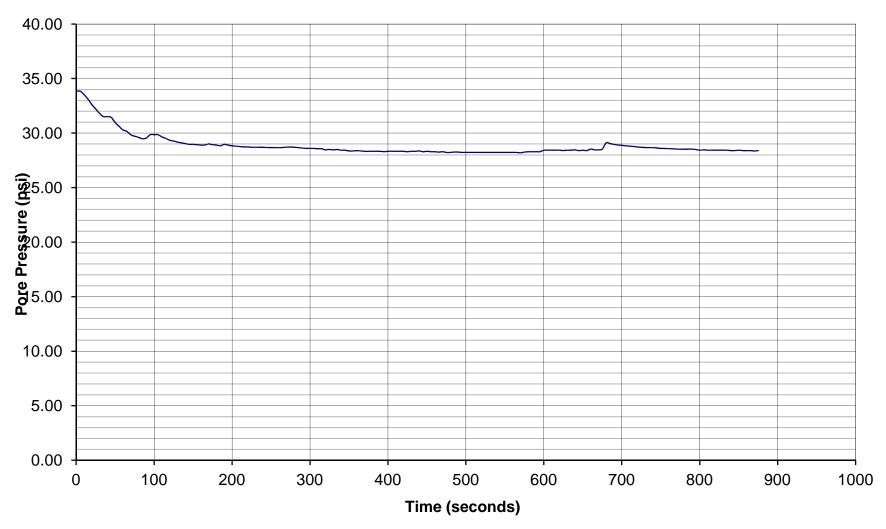
Sounding: S0029CPT
Depth: 80.05 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

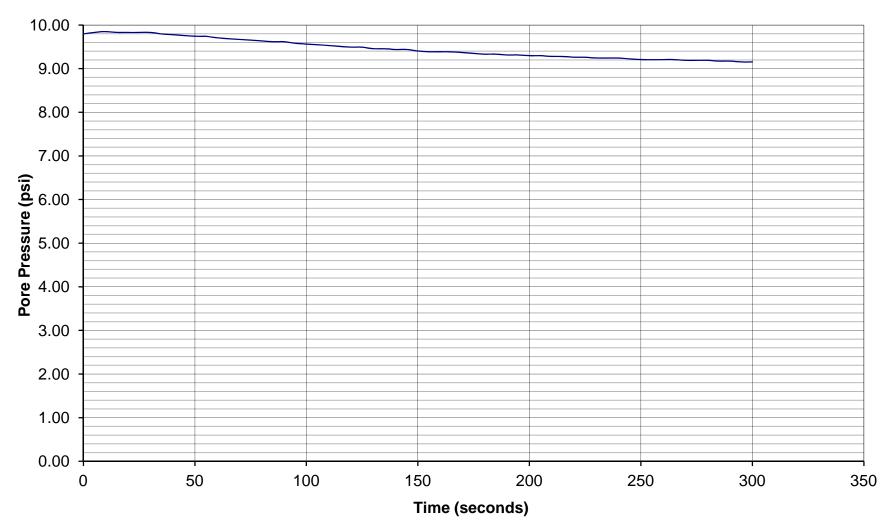
Sounding: S0031CPT
Depth: 150.43 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

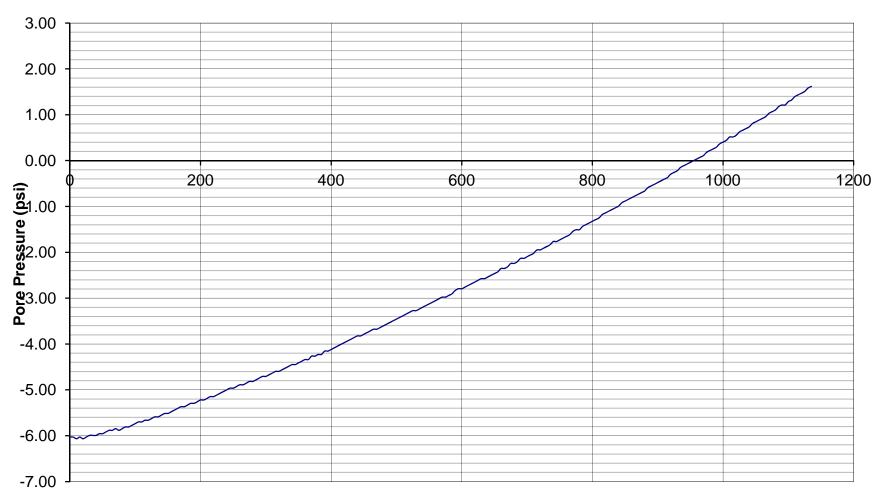
Sounding: S0032CPT
Depth: 90.22 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

Sounding: S0034ACPT
Depth: 95.14 feet
Site: Fresno
Engineer: B. Kluzniak

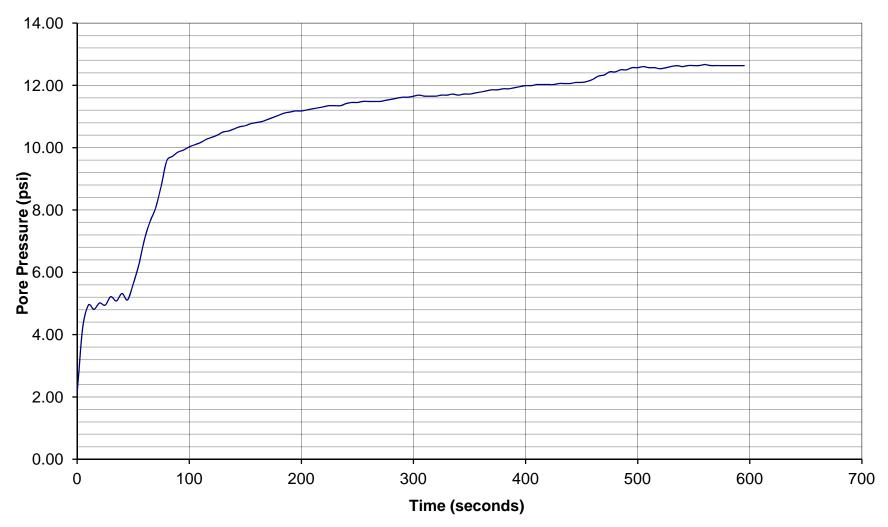


Time (seconds)



Pore Pressure Dissipation Test

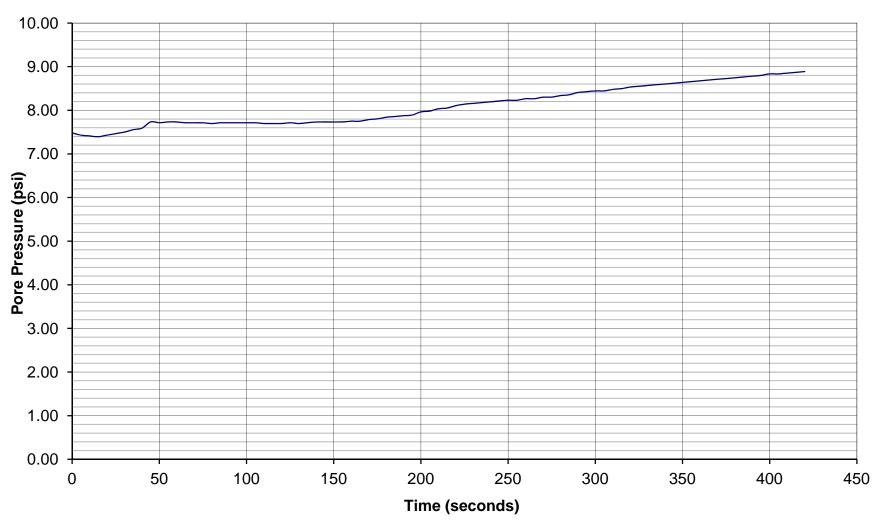
Sounding: S0035CPT
Depth: 94 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

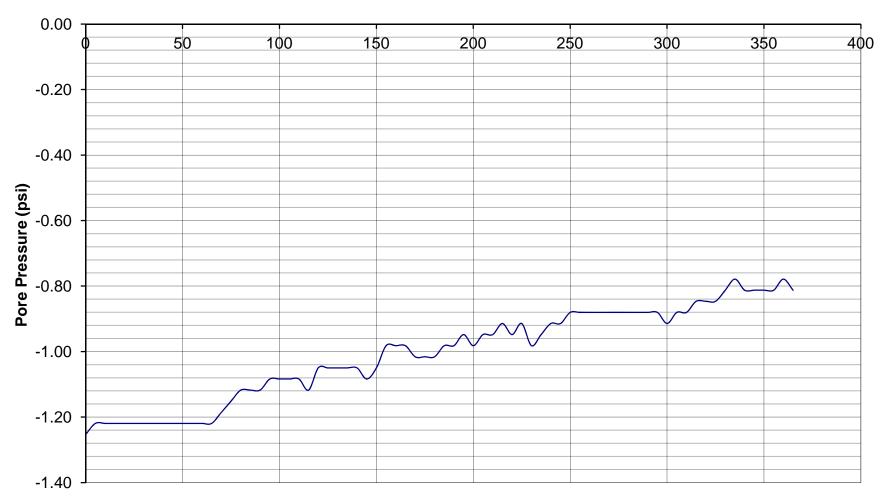
Sounding: S0036ACPT
Depth: 100.39 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

Sounding: S0037CPT
Depth: 24.11 feet
Site: Fresno
Engineer: B. Kluzniak

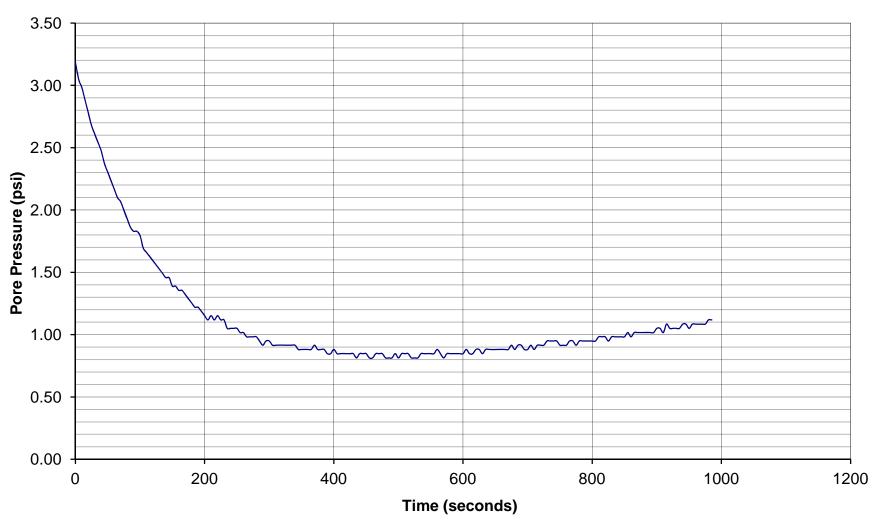


Time (seconds)



Pore Pressure Dissipation Test

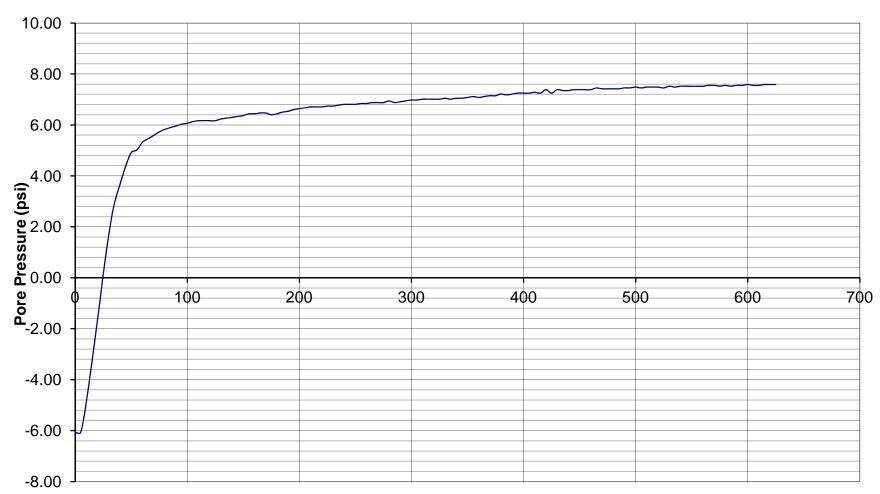
Sounding: S0037CPT
Depth: 80.05 feet
Site: Fresno
Engineer: B. Kluzniak





Pore Pressure Dissipation Test

Sounding: S0041CPT
Depth: 80.22 feet
Site: Fresno
Engineer: B. Kluzniak



Time (seconds)